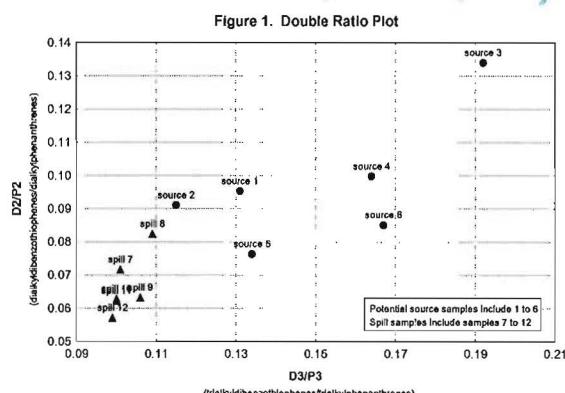
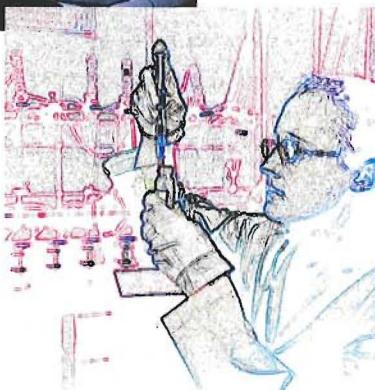


Environmental Forensic Report

Honeywell - Quanta

SDG: CH051203
CH051208



Report To:

CH2M Hill
99 Cherry Hill Road, Suite 200
Parsippany, NJ 07054

Report By:

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

Date: January 6, 2006

Identifying and allocating sources of pollutants in complex environments.

Final Laboratory Report

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

Phone: 617-923-4662
Fax: 617-923-4610
e-Mail meta@metaenv.com

Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and Quality Assurance Officer, as verified by the following signatures.


Raymond Siegener, Ph. D.
Senior Chemist

Jan 6, 2006
Date


David M. Mauro
Senior Scientist, Quality Assurance Officer

1/6/06
Date

Sample Delivery Group Narrative

Project: Honeywell - Quanta

CH2M Hill
99 Cherry Hill Road, Suite 200
Parsippany, NJ 07054

Report Contact: Ms. Amini Boston

Dates of Receipt: 12/03/2005; 12/08/2005

Sample Summary:

The samples received for this project are summarized in the attached sample login forms.

META Project Number: C01007

Chain of Custody

The samples were received in good condition. The internal temperature of the shipment containers were as follows:

| | |
|---------------------------|--------|
| Sample received: 12/03/08 | 14.2°C |
| 12/08/08 | 3.8°C |

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized one month after the release of this data report. Sample disposal will be documented.

Please note that the four samples received on 12/03/2005 were delayed in-transit, and therefore were at an elevated temperature when received by the laboratory. Due to the nature of these

samples (NAPL), it was determined that the sample temperature would have a negligible effect on data quality in general and recovery of volatile components in particular.

Methods

The NAPL samples were prepared by waste dilution (EPA 3580) using dichloromethane (DCM). The extracts were spiked with internal standard and analyzed by GC/FID (EPA 8100 mod.) for fingerprint, GC/MS (EPA 8270 mod.) for Semivolatile Organics, and GC/MS/SIM (EPA 8270 mod.) for petroleum biomarkers. For PCBs analysis, an aliquot of the waste dilution extract was solvent exchanged to hexane and then acid cleaned (EPA 3665) and sulfur cleaned (EPA 3660) prior to analysis by GC/ECD (EPA 8082 mod.). Samples analyzed by subcontracting laboratories for VOCs (EPA 8260), Priority Pollutant Metals, and Physical Properties were prepared according to the methods indicated on the attached laboratory reports (Appendix D and Appendix G).

Results

Sample results are presented in summary forms (CLP Form 1 equivalent) which follow this narrative.

Quality Control

Analyte Flags

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." Undetected analytes were reported as null and flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

Holding Times

The NAPL samples were extracted within holding times. The samples and extracts were stored

at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ prior to extraction and analysis. The extracts were analyzed within 40 days of sample preparation.

Surrogate Spikes

Extraction surrogates were added to all samples prior to extraction. All surrogate compounds were recovered within the 50%-120% acceptable criterion.

Blanks

Moretane was detected in the CH051212-MB2 Method Blank at just over the RL. As moretane was also found in the associated sample, *MW-107D-120605*, at below the RL (1.36 mg/kg), this data should be evaluated for possible bias. No target analytes were found in the blanks associated with the PCB Aroclor and Semivolatile samples.

Blank Spikes

A Blank Spike sample was prepared with each batch. All spiked compounds (PCBs and 8270 compounds) were recovered within criteria. No biomarker compounds were added to these spiked samples; they should be evaluated as an additional check on contamination, and for surrogate recoveries.

Internal Standards

Internal standards were recovered within acceptable QC limits (50%-200%) relative to the continuing calibration standards.

Interpretation

Sample MW-105D-112305

MW-105D-112305 contained pyrogenic material (see definitions). The pyrogenic nature of the material is characterized by the relative lack of alkanes and petroleum biomarker compounds, and dominance of unsubstituted polycyclic aromatic hydrocarbons (PAHs). The lack of a substantial unresolved complex mixture (UCM) or “hump” is another indicator that the material present is primarily pyrogenic in nature. The slight reduction in the relative abundance of Naphthalene, 2-Methylnaphthalene and 1-Methylnaphthalene as compared to other samples in this batch, indicates that this material is slightly weathered. A comparison of the ratios of Fluoranthene/Pyrene (F1/Py) to Dibenzofuran/Fluorene (D/F) indicates that this material was formed under a relatively high temperature process. There were no PCB Aroclors present in this material.

This pattern is consistent with coal carbonization tars, coke oven tars and creosotes in our in-house library.

Sample MW-116BD-112305

MW-116BD-112305 contained pyrogenic material (see definitions). The pyrogenic nature of the material is characterized by the relative lack of alkanes and petroleum biomarker compounds, and dominance of unsubstituted polycyclic aromatic hydrocarbons (PAHs). The lack of a substantial unresolved complex mixture (UCM) or “hump” is another indicator that the material present is primarily pyrogenic in nature. The dominance of 2-ring PAHs indicates that this material is relatively unweathered. A comparison of the ratios of Fluoranthene/Pyrene (Fl/Py) to Dibenzofuran/Fluorene (D/F) indicates that this material was formed under a relatively high temperature process. There were no PCB Aroclors present in this material.

This pattern is consistent with coal carbonization tars, coke oven tars and creosotes in our in-house library.

Sample MW-102AD-112305

MW-102AD-112305 contained pyrogenic material (see definitions). The pyrogenic nature of the material is characterized by the relative lack of alkanes and petroleum biomarker compounds, and dominance of unsubstituted polycyclic aromatic hydrocarbons (PAHs). The lack of a substantial unresolved complex mixture (UCM) or “hump” is another indicator that the material present is primarily pyrogenic in nature. The dominance of 2-ring PAHs indicates that this material is relatively unweathered. A comparison of the ratios of Fluoranthene/Pyrene (Fl/Py) to Dibenzofuran/Fluorene (D/F) indicates that this material was formed under a relatively high temperature process. There were no PCB Aroclors present in this material.

This pattern is consistent with coal carbonization tars, coke oven tars and creosotes in our in-house library.

Sample MW-112BD-112305

MW-112BD-112305 contained pyrogenic material (see definitions). The pyrogenic nature of the material is characterized by the relative lack of alkanes and petroleum biomarker compounds, and dominance of unsubstituted polycyclic aromatic hydrocarbons (PAHs). The lack of a substantial unresolved complex mixture (UCM) or “hump” is another indicator that the material present is primarily pyrogenic in nature. The dominance of 2-ring PAHs indicates that this material is relatively unweathered. A comparison of the ratios of Fluoranthene/Pyrene (Fl/Py) to Dibenzofuran/Fluorene (D/F) indicates that this material was formed under a relatively high temperature process. There were no PCB Aroclors present in this material.

This pattern is consistent with coal carbonization tars, coke oven tars and creosotes in our in-house

library.

Sample MW-107D-120605

MW-107D-120605 contained pyrogenic material (see definitions). The pyrogenic nature of the material is characterized by the relative lack of alkanes and petroleum biomarker compounds, and dominance of unsubstituted polycyclic aromatic hydrocarbons (PAHs). The lack of a substantial unresolved complex mixture (UCM) or “hump” is another indicator that the material present is primarily pyrogenic in nature. The dominance of 2-ring PAHs indicates that this material is relatively unweathered. A comparison of the ratios of Fluoranthene/Pyrene (Fl/Py) to Dibenzofuran/Fluorene (D/F) indicates that this material was formed under a relatively high temperature process. There were no PCB Aroclors present in this material.

This pattern is consistent with coal carbonization tars, coke oven tars and creosotes in our in-house library.

Discussion

All four samples show very similar characteristics in both the GC/FID fingerprints (Appendix B) and the diagnostic ratios (Table 1). For example, the mean Fl/Py ratio was 1.22 with a percent relative standard deviation (RSD) of 9%. Similarly the mean D/F ratio was 0.780 with a percent RSD of 9%. Other diagnostic ratios are listed in Table 1, and exhibit the same degree of agreement. The PAH histogram distributions (Appendix D) of all four samples are very similar also. These samples appear to have come from the same source.

The small differences in the diagnostic ratios, particularly for sample *MW-112BD-1123015* as compared to the other four NAPL samples, may indicate analytical variability and/or different batches of the same tar or creosote. The statistical significance of the observed differences in the ratios could not be assessed with the few samples analyzed.

There were no indications of petroleum products or petrogenic substances in any of the samples. There were no PCBs or other chlorinated compounds present.

Definitions

Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remain following coal tar distillation.

References

- 1) Christensen, L.B. and T.H. Larsen. "Method for determining the age of diesel oil spills in the soil." *Ground Water Monitoring and Remediation*, 13(4): 142-149, 1993.
- 2) Kaplan, I.R., Y. Galperin, H. Alimi, R. Lee, and S. Lu. "Patterns of chemical changes during environmental alteration of hydrocarbon fuels." *Ground Water Monitoring and Remediation*, 16(4): 113-125, 1996.
- 3) Schmidt, G.W. "Forensic petroleum hydrocarbon fingerprinting and age of release developments." *Hydrocarbon Pattern Recognition and Dating Conference*, University of Wisconsin-Madison, Nov. 1997.
- 4) McNicoll, D., Tousignant, L.P., Augustine, P. "Facts and Fallacies: Petroleum Degradation in a Subsurface Environment." *Contaminated Soil Sediment and Water*, 17-21, June, July 2001
- 5) "Chemical Fingerprinting of Hydrocarbons," in: Introduction to Environmental Forensics. B.L. Murphy and R.D. Morrison editors, Academic Press, San Diego, CA 2002.
- 6) Hurst, Richard W. and Schmidt, Gene W. "Age Significance of nC₁₇/Pr Ratios in Forensic Investigations of Refined Product and Crude Oil Releases," *Environmental Geosciences*, 12(3): 177-192, 2005.
- 7) Mauro, D.M., "Chemical Source Attribution at former MGP Sites," EPRI Report 1000728, December 2000.

8)

Table 1. Selected Source and Weathering Ratios

| | Fl/Py | D/F | C3D/C3PA | C2D/C2PA | BF/MP |
|------------------------|-------|------|----------|----------|-------|
| MW-105BD-112305 | 1.29 | 0.78 | 0.281 | 0.253 | 1.03 |
| MW-116BD-112305 | 1.22 | 0.76 | 0.226 | 0.201 | 0.733 |
| MW-102AD-112305 | 1.20 | 0.81 | 0.177 | 0.169 | 0.764 |
| MW-112BD-112305 | 1.06 | 0.68 | 0.260 | 0.228 | 0.545 |
| MW-107D-120605 | 1.34 | 0.86 | 0.201 | 0.168 | 0.801 |

Ratios:

Fl/Py fluoranthene/pyrene

D/F dibenzofuran/fluorene

C17/Pris septadecane/pristane

C18/Phy octadecane/phytane

Pris/Phy pristane/phytane

C3D/C3PA trialkyldibenzothiophenes/trialkylphenanthrenes/anthracenes

C2D/C2PA dialkyldibenzothiophenes/dialkylphenanthrenes/anthracenes

BF/MP benzofluorenes/methylpyrenes

Environmental Forensic Report

Honeywell - Quanta

SDG: CH051203
CH051208

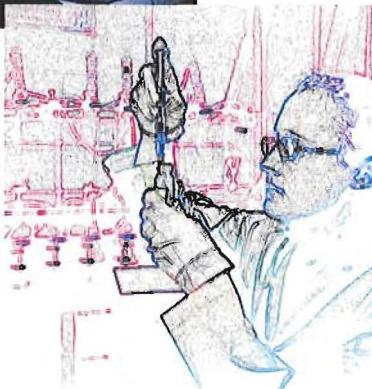
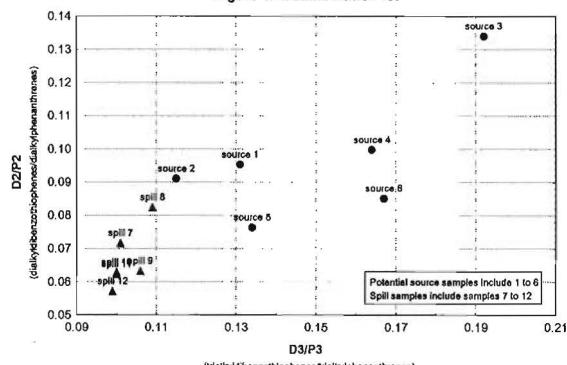


Figure 1. Double Ratio Plot



Report To:

CH2M Hill
99 Cherry Hill Road, Suite 200
Parsippany, NJ 07054

Report By:

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

Date: January 6, 2006

Identifying and allocating sources of pollutants in complex environments.

Final Laboratory Report

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

Phone: 617-923-4662
Fax: 617-923-4610
e-Mail meta@metaenv.com

Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and Quality Assurance Officer, as verified by the following signatures.

Raymond Siegener
Raymond Siegener, Ph. D.
Senior Chemist

Jan 6, 2006
Date

David M. Mauro
David M. Mauro
Senior Scientist, Quality Assurance Officer

1/6/06
Date

Sample Delivery Group Narrative

Project: Honeywell - Quanta

CH2M Hill
99 Cherry Hill Road, Suite 200
Parsippany, NJ 07054

Report Contact: Ms. Amini Boston

Dates of Receipt: 12/03/2005; 12/08/2005

Sample Summary:

The samples received for this project are summarized in the attached sample login forms.

META Project Number: C01007

Chain of Custody

The samples were received in good condition. The internal temperature of the shipment containers were as follows:

| | |
|---------------------------|--------|
| Sample received: 12/03/08 | 14.2°C |
| 12/08/08 | 3.8°C |

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized one month after the release of this data report. Sample disposal will be documented.

Please note that the four samples received on 12/03/2005 were delayed in-transit, and therefore were at an elevated temperature when received by the laboratory. Due to the nature of these

samples (NAPL), it was determined that the sample temperature would have a negligible effect on data quality in general and recovery of volatile components in particular.

Methods

The NAPL samples were prepared by waste dilution (EPA 3580) using dichloromethane (DCM). The extracts were spiked with internal standard and analyzed by GC/FID (EPA 8100 mod.) for fingerprint, GC/MS (EPA 8270 mod.) for Semivolatile Organics, and GC/MS/SIM (EPA 8270 mod.) for petroleum biomarkers. For PCBs analysis, an aliquot of the waste dilution extract was solvent exchanged to hexane and then acid cleaned (EPA 3665) and sulfur cleaned (EPA 3660) prior to analysis by GC/ECD (EPA 8082 mod.). Samples analyzed by subcontracting laboratories for VOCs (EPA 8260), Priority Pollutant Metals, and Physical Properties were prepared according to the methods indicated on the attached laboratory reports (Appendix D and Appendix G).

Results

Sample results are presented in summary forms (CLP Form 1 equivalent) which follow this narrative.

Quality Control

Analyte Flags

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." Undetected analytes were reported as null and flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

Holding Times

The NAPL samples were extracted within holding times. The samples and extracts were stored

at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ prior to extraction and analysis. The extracts were analyzed within 40 days of sample preparation.

Surrogate Spikes

Extraction surrogates were added to all samples prior to extraction. All surrogate compounds were recovered within the 50%-120% acceptable criterion.

Blanks

Moretane was detected in the CH051212-MB2 Method Blank at just over the RL. As moretane was also found in the associated sample, *MW-107D-120605*, at below the RL (1.36 mg/kg), this data should be evaluated for possible bias. No target analytes were found in the blanks associated with the PCB Aroclor and Semivolatile samples.

Blank Spikes

A Blank Spike sample was prepared with each batch. All spiked compounds (PCBs and 8270 compounds) were recovered within criteria. No biomarker compounds were added to these spiked samples; they should be evaluated as an additional check on contamination, and for surrogate recoveries.

Internal Standards

Internal standards were recovered within acceptable QC limits (50%-200%) relative to the continuing calibration standards.

Interpretation

Sample MW-105D-112305

MW-105D-112305 contained pyrogenic material (see definitions). The pyrogenic nature of the material is characterized by the relative lack of alkanes and petroleum biomarker compounds, and dominance of unsubstituted polycyclic aromatic hydrocarbons (PAHs). The lack of a substantial unresolved complex mixture (UCM) or “hump” is another indicator that the material present is primarily pyrogenic in nature. The slight reduction in the relative abundance of Naphthalene, 2-Methylnaphthalene and 1-Methylnaphthalene as compared to other samples in this batch, indicates that this material is slightly weathered. A comparison of the ratios of Fluoranthene/Pyrene (F/Py) to Dibenzofuran/Fluorene (D/F) indicates that this material was formed under a relatively high temperature process. There were no PCB Aroclors present in this material.

This pattern is consistent with coal carbonization tars, coke oven tars and creosotes in our in-house library.

Sample MW-116BD-112305

MW-116BD-112305 contained pyrogenic material (see definitions). The pyrogenic nature of the material is characterized by the relative lack of alkanes and petroleum biomarker compounds, and dominance of unsubstituted polycyclic aromatic hydrocarbons (PAHs). The lack of a substantial unresolved complex mixture (UCM) or “hump” is another indicator that the material present is primarily pyrogenic in nature. The dominance of 2-ring PAHs indicates that this material is relatively unweathered. A comparison of the ratios of Fluoranthene/Pyrene (F/Py) to Dibenzofuran/Fluorene (D/F) indicates that this material was formed under a relatively high temperature process. There were no PCB Aroclors present in this material.

This pattern is consistent with coal carbonization tars, coke oven tars and creosotes in our in-house library.

Sample MW-102AD-112305

MW-102AD-112305 contained pyrogenic material (see definitions). The pyrogenic nature of the material is characterized by the relative lack of alkanes and petroleum biomarker compounds, and dominance of unsubstituted polycyclic aromatic hydrocarbons (PAHs). The lack of a substantial unresolved complex mixture (UCM) or “hump” is another indicator that the material present is primarily pyrogenic in nature. The dominance of 2-ring PAHs indicates that this material is relatively unweathered. A comparison of the ratios of Fluoranthene/Pyrene (F/Py) to Dibenzofuran/Fluorene (D/F) indicates that this material was formed under a relatively high temperature process. There were no PCB Aroclors present in this material.

This pattern is consistent with coal carbonization tars, coke oven tars and creosotes in our in-house library.

Sample MW-112BD-112305

MW-112BD-112305 contained pyrogenic material (see definitions). The pyrogenic nature of the material is characterized by the relative lack of alkanes and petroleum biomarker compounds, and dominance of unsubstituted polycyclic aromatic hydrocarbons (PAHs). The lack of a substantial unresolved complex mixture (UCM) or “hump” is another indicator that the material present is primarily pyrogenic in nature. The dominance of 2-ring PAHs indicates that this material is relatively unweathered. A comparison of the ratios of Fluoranthene/Pyrene (F/Py) to Dibenzofuran/Fluorene (D/F) indicates that this material was formed under a relatively high temperature process. There were no PCB Aroclors present in this material.

This pattern is consistent with coal carbonization tars, coke oven tars and creosotes in our in-house

library.

Sample MW-107D-120605

MW-107D-120605 contained pyrogenic material (see definitions). The pyrogenic nature of the material is characterized by the relative lack of alkanes and petroleum biomarker compounds, and dominance of unsubstituted polycyclic aromatic hydrocarbons (PAHs). The lack of a substantial unresolved complex mixture (UCM) or “hump” is another indicator that the material present is primarily pyrogenic in nature. The dominance of 2-ring PAHs indicates that this material is relatively unweathered. A comparison of the ratios of Fluoranthene/Pyrene (Fl/Py) to Dibenzofuran/Fluorene (D/F) indicates that this material was formed under a relatively high temperature process. There were no PCB Aroclors present in this material.

This pattern is consistent with coal carbonization tars, coke oven tars and creosotes in our in-house library.

Discussion

All four samples show very similar characteristics in both the GC/FID fingerprints (Appendix B) and the diagnostic ratios (Table 1). For example, the mean Fl/Py ratio was 1.22 with a percent relative standard deviation (RSD) of 9%. Similarly the mean D/F ratio was 0.780 with a percent RSD of 9%. Other diagnostic ratios are listed in Table 1, and exhibit the same degree of agreement. The PAH histogram distributions (Appendix D) of all four samples are very similar also. These samples appear to have come from the same source.

The small differences in the diagnostic ratios, particularly for sample *MW-112BD-1123015* as compared to the other four NAPL samples, may indicate analytical variability and/or different batches of the same tar or creosote. The statistical significance of the observed differences in the ratios could not be assessed with the few samples analyzed.

There were no indications of petroleum products or petrogenic substances in any of the samples. There were no PCBs or other chlorinated compounds present.

Definitions

Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remain following coal tar distillation.

References

- 1) Christensen, L.B. and T.H. Larsen. "Method for determining the age of diesel oil spills in the soil." *Ground Water Monitoring and Remediation*, 13(4): 142-149, 1993.
- 2) Kaplan, I.R., Y. Galperin, H. Alimi, R. Lee, and S. Lu. "Patterns of chemical changes during environmental alteration of hydrocarbon fuels." *Ground Water Monitoring and Remediation*, 16(4): 113-125, 1996.
- 3) Schmidt, G.W. "Forensic petroleum hydrocarbon fingerprinting and age of release developments." *Hydrocarbon Pattern Recognition and Dating Conference*, University of Wisconsin-Madison, Nov. 1997.
- 4) McNicoll, D., Tousignant, L.P., Augustine, P. "Facts and Fallacies: Petroleum Degradation in a Subsurface Environment." *Contaminated Soil Sediment and Water*, 17-21, June, July 2001
- 5) "Chemical Fingerprinting of Hydrocarbons," in: Introduction to Environmental Forensics. B.L. Murphy and R.D. Morrison editors, Academic Press, San Diego, CA 2002.
- 6) Hurst, Richard W. and Schmidt, Gene W. "Age Significance of nC17/Pr Ratios in Forensic Investigations of Refined Product and Crude Oil Releases," *Environmental Geosciences*, 12(3): 177-192, 2005.
- 7) Mauro, D.M., "Chemical Source Attribution at former MGP Sites," EPRI Report 1000728, December 2000.

8)

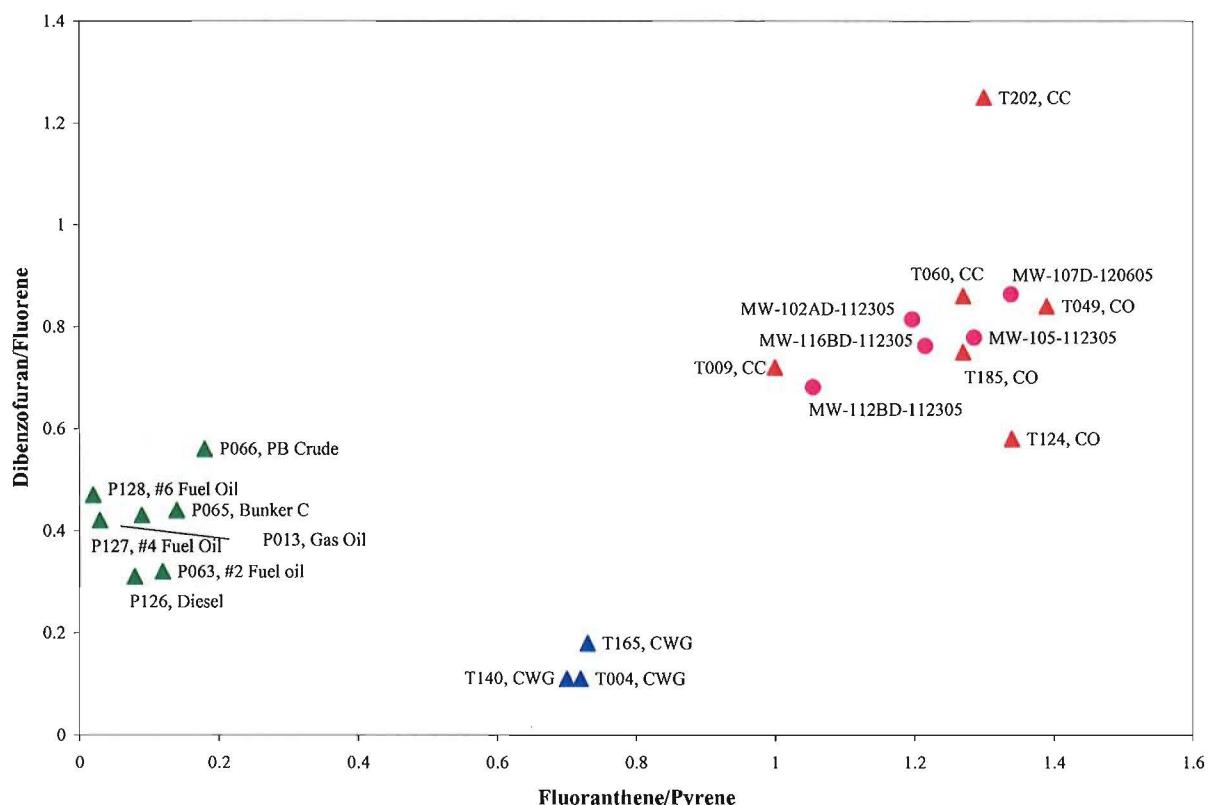
Table 1. Selected Source and Weathering Ratios

| | F1/Py | D/F | C3D/C3PA | C2D/C2PA | BF/MP |
|------------------------|-------|------|----------|----------|-------|
| MW-105BD-112305 | 1.29 | 0.78 | 0.281 | 0.253 | 1.03 |
| MW-116BD-112305 | 1.22 | 0.76 | 0.226 | 0.201 | 0.733 |
| MW-102AD-112305 | 1.20 | 0.81 | 0.177 | 0.169 | 0.764 |
| MW-112BD-112305 | 1.06 | 0.68 | 0.260 | 0.228 | 0.545 |
| MW-107D-120605 | 1.34 | 0.86 | 0.201 | 0.168 | 0.801 |

Ratios:

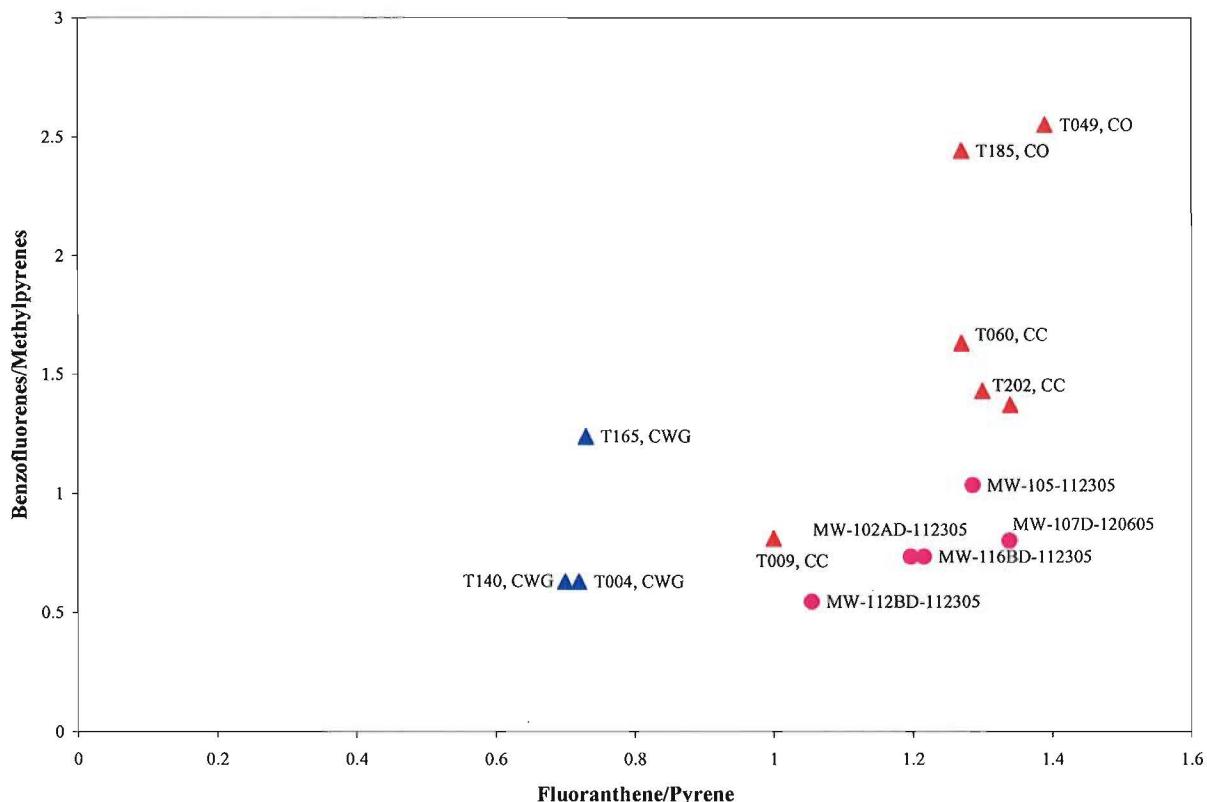
| | |
|----------|---|
| F1/Py | fluoranthene/pyrene |
| D/F | dibenzofuran/fluorene |
| C17/Pris | septadecane/pristane |
| C18/Phy | octadecane/phytane |
| Pris/Phy | pristane/phytane |
| C3D/C3PA | trialkyldibenzothiophenes/trialkylphenanthrenes/anthracenes |
| C2D/C2PA | dialkyldibenzothiophenes/dialkylphenanthrenes/anthracenes |
| BF/MP | benzofluorennes/methylpyrenes |

Figure 1. Selected Diagnostic Ratios – Fl/Py v. D/F



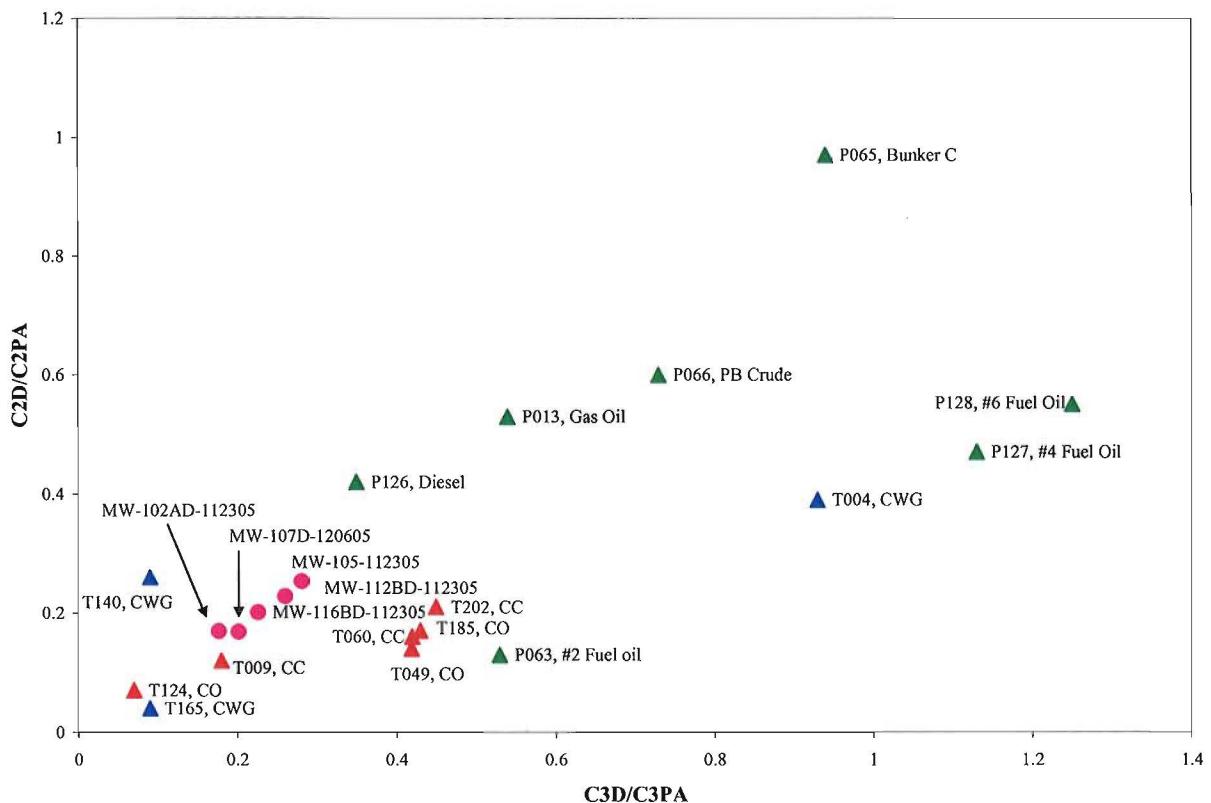
XXXX Tar Sample from META's in house source library
 CC Coal Carbonization Tar
 CO Coke Oven Tar
 CWG Carbureted Water Gas Tar
 ● Field Samples

Figure 2. Selected Diagnostic Ratios – Fl/Py v. BF/MP



TXXX Tar Sample from META's in house source library
 CC Coal Carbonization Tar
 CO Coke Oven Tar
 CWG Carbureted Water Gas Tar
 ● Field Samples

Figure 3. Selected Diagnostic Ratios – C3D/C3PA v. C2D/C2PA



TXXX Tar Sample from META's in house source library
 CC Coal Carbonization Tar
 CO Coke Oven Tar
 CWG Carbureted Water Gas Tar
 ● Field Samples

Appendix A

Chains of Custody

META ENVIRONMENTAL SAMPLE RECEIPT

| Lab ID | Field ID | Matrix | Prep Method | Cleanup Method | Analysis Method | Date Sampled | Date Received | Client/Project | Container/Storage | Comments/Logger | Client Name | Project Name |
|-------------|-----------------|--------|-------------|----------------|---------------------|--------------|---------------|----------------|-------------------|-----------------|-------------|------------------|
| CH051203-01 | MW-105D-112305 | NAPL | 2512 | | 4007/4014/4011/8082 | 11/23/2005 | 12/3/2005 | C01007 | 1 L. Bottle | | CH2MHill | Honeywell-Quanta |
| CH051203-02 | MW-116BD-112305 | NAPL | 2512 | | 4007/4014/4011/8082 | 11/23/2005 | 12/3/2005 | C01007 | 1 L. Bottle | | CH2MHill | Honeywell-Quanta |
| CH051203-03 | MW-102AD-112305 | NAPL | 2512 | | 4007/4014/4011/8082 | 11/23/2005 | 12/3/2005 | C01007 | 1 L. Bottle | | CH2MHill | Honeywell-Quanta |
| CH051203-04 | MW-112BD-112305 | NAPL | 2512 | | 4007/4014/4011/8082 | 11/23/2005 | 12/3/2005 | C01007 | 1 L. Bottle | | CH2MHill | Honeywell-Quanta |

Logged By: MJ
 Date: 12/21/05

Reviewed By: AL
 Date: 12/21/05

Lancaster Laboratories META Environmental
 3425 New Holland Pike, PO Box 12425 49 Clarendon St.
 Lancaster, PA 17605-2425 Watertown MA 02472
 717-666-2300 (617-923-4662)

Honeywell

Chain Of Custody / Analysis Request

AESI Ref: 38449.41045

COC #: 30916_112305

Lab Use Only

Lab Proj #

Lab ID LLJ

PAGE 1 of (ANS)

Job No.

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 02-01-05 www.aesi.com

| | | | | | |
|---|--|---|--|---|---|
| Privileged & Confidential | | EDD To: | | Site Name: Quanta Resources Superfund Site; Edgewater, New Jersey | |
| | | Elizabeth.Garland@ch2m.com; Amy.Klopper@ch2m.com; Amini.Boston@ch2m.com | | Location of Site: [Put Field Activity Name Here] NAPL Sampling | |
| Client Contact: (name, co., address) Ms. Amini Boston/CH2M HILL | | Sampler: Austin Hareclerode/CH2M HILL | | Preservative | |
| 99 Cherry Hill Road, Suite 200 Parsippany, NJ 07054 973-316-9300 X 4537; 267-675-4540 (fax) | | P O # | | 8 | 8 |
| | | Analysis Turnaround Time: 10 | | 8 | 8 |
| | | Standard - Y | | 8 | 8 |
| | | Rush Charges Authorized for - 2 weeks - | | 8 | 8 |
| | | 1 week - | | 8 | 8 |
| | | Next Day - | | 8 | 8 |
| Hardcopy Report To: Ms. Amini Boston 99 Cherry Hill Road, Suite 200 Parsippany, NJ 07054 | | Invoice To: Ms. Amini Boston 99 Cherry Hill Road, Suite 200 Parsippany, NJ 07054 | | 8 | 8 |

| Sample Identification | | | | Sample Date | Sample Time | Sample Type | Sample Matrix | Sample Purpose | # of Cont. | Units | VOCs | SVOCS | Metals | Pyrogenic analysis | Petrogenic analysis | Interfacial tension | Surface tension | Specific Gravity | Density | Viscosity | Fingerprint analysis | PCBs |
|-----------------------|------------------|-----------------|-----------------|-------------|-------------|-------------|---------------|----------------|------------|-------|------|-------|--------|--------------------|---------------------|---------------------|-----------------|------------------|---------|-----------|----------------------|------|
| Location ID | Start Depth (ft) | End Depth (ft) | Field Sample ID | | | | | | | | | | | | | | | | | | | |
| 1 MW-105 | — | MW-105D-112305 | 11/23/05 1035 | NAPL | NAPL | Reg | 1 | G | X | X | X | X | X | X | X | X | X | X | X | X | CH051203-01 | |
| 2 MW-116B | — | MW-116BD-112305 | 11/23/05 1415 | NAPL | NAPL | Reg | 1 | G | N | X | X | X | X | X | X | X | X | X | X | X | ~02 | |
| 3 MW-102A | — | MW-102AD-112305 | 11/23/05 1455 | NAPL | NAPL | Reg | 1 | G | N | X | X | X | X | X | X | X | X | X | X | X | ~03 | |
| 4 MW-112B | — | MW-112BD-112305 | 11/23/05 1510 | NAPL | NAPL | Reg | 1 | G | N | X | X | X | X | X | X | X | X | X | X | X | ~04 | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |

Please return the cooler to Lancaster lab.

| | | | | | | | | | |
|-------------------------------------|-----------|---------------|---------------------|-----------|----------|--------------|--------|----------------------|-----|
| Relinquished by <i>Jen Simms</i> | Company | CH2M Hill | Received by | Company | META | Condition | good | Custody Seals Intact | yes |
| | Date/Time | 11/23/05 1800 | <i>David Morris</i> | Date/Time | 11/23/05 | Cooler Temp. | 14.2°C | | |
| Relinquished by | Company | | Received by | Company | 10:30 AM | Condition | | Custody Seals Intact | |
| | Date/Time | | | Date/Time | | Cooler Temp. | | | |

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify): Ice

META ENVIRONMENTAL SAMPLE RECEIPT

| Lab ID | Field ID | Matrix | Prep Method | Cleanup Method | Analysis Method | Date Sampled | Date Received | Client/Project | Container/Storage | Comments/Logger | Client Name | Project Name |
|--------------------|----------------|--------|-------------|----------------|--------------------|--------------|---------------|----------------|-------------------|-----------------|-------------|------------------|
| CH051208-01a,b,c,d | MW-107D-120605 | NAPL | 2512 | | 4007/4014/4011/808 | 12/6/2005 | 12/8/2005 | C01007-60 | 4x8 oz. jars | | CH2MHill | Honeywell-Quanta |

Logged By: DB
Date: 12/13/05

Page 1 of 1

Reviewed By: JM
Date: 12/13/05

Lancaster Laboratories — META Environmental
 2425 New Holland Pike, PO Box 12425
 Lancaster, PA 17605-12425
 717-656-2300
 617-923-4662
 49 Clarendon St
 Watertown MA 02472

Honeywell

Chain Of Custody / Analysis Request

AESI Ref: 38449.41045
 COC #: 00916_120705
 Lab Use Only

| | | | | | | | | | | |
|---|------------------|----------------|-----------------|--|-------------|-------------|---------------|--|-----------------|--------------------|
| Privileged & Confidential | | | | Site Name: Quanta Resources Superfund Site; Edgewater, New Jersey | | | | Lab Proj # | | |
| EDD To: Elizabeth.Garland@ch2m.com; Amy.Klopper@ch2m.com; Amini.Boston@ch2m.com | | | | Location of Site: NAPL Sampling [Put Field Activity Name Here] | | | | Lab ID LLU | | |
| Client Contact: (name, co., address) Ms. Amini Boston/CH2M HILL 99 Cherry Hill Road, Suite 200 Parsippany, NJ 07054 973-316-9300 X 4537; 267-675-4540 (fax) | | | | Sampler: Austin Hareclerode/CH2M HILL P O # | | | | PAGE 1 of (NAPL) | | |
| | | | | Analysis Turnaround Time: 10 Standard - Y Rush Charges Authorized for - 2 weeks - 1 week - Next Day - | | | | Job No. | | |
| Hardcopy Report To: Ms. Amini Boston 99 Cherry Hill Road, Suite 200 Parsippany, NJ 07054 | | | | Grab/Composite | | | | What is in the Text File? Mouse over here. | | |
| Invoice To: Ms. Amini Boston 99 Cherry Hill Road, Suite 200 Parsippany, NJ 07054 | | | | Field Filtered Sample? | | | | Written and maintained by AESI (Ver 3.7) 02-01-05 renesource@aol.com | | |
| Sample Identification | | | | Sample Date | Sample Time | Sample Type | Sample Matrix | Sample Purpose | # of Cont. | Units |
| Location ID | Start Depth (ft) | End Depth (ft) | Field Sample ID | | | | | | | Lab Sample Numbers |
| 1 MW-107 | — | MW-107D-120605 | 12/06/05 1500 | NAPL | NAPL | 4 | G | N | X X X X X X X X | CH051208-dabc |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |

*Physical characteristics — interfacial tension, surface tension, specific gravity, density, and viscosity.

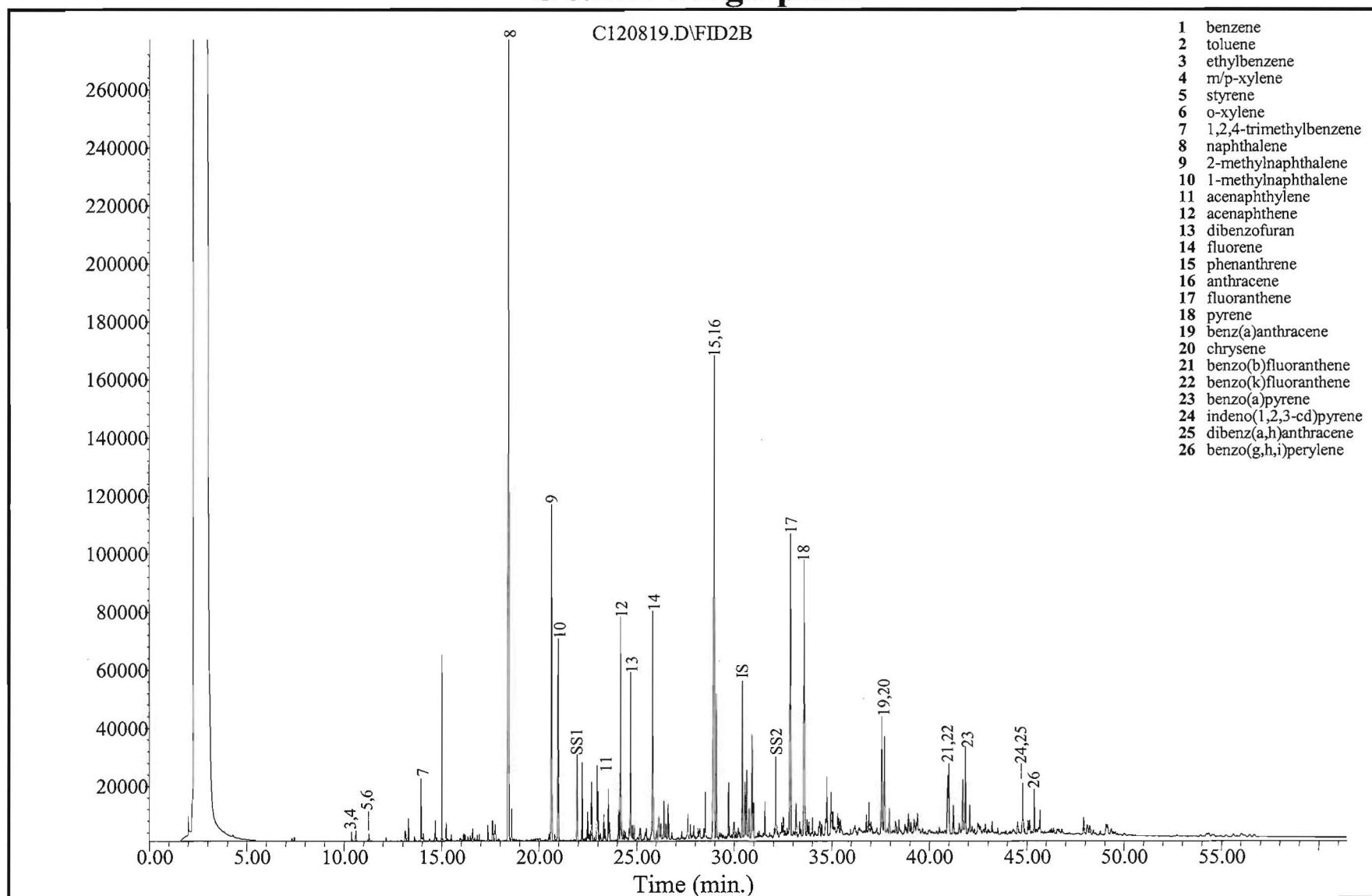
| | | | | | | | | |
|-------------------------------------|-----------|---------------|----------------------|-----------|---------------|--------------|----------------------|---|
| Relinquished by <i>Ten Simms</i> | Company | CH2M Hill | Received by | META Env. | Company | Condition | Custody Seals Intact | ✓ |
| | Date/Time | 12/07/05 1350 | <i>Dinny Berthau</i> | Date/Time | 10:30am 3.8°C | Cooler Temp. | good | |
| Relinquished by | Company | | Received by | | Company | Condition | Custody Seals Intact | |
| | Date/Time | | | | Date/Time | | Cooler Temp. | |

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify): ice

Appendix B

GC/FID Fingerprints

GC/FID Fingerprint



IS – *o*-terphenyl

SS1 – 2-fluorobiphenyl

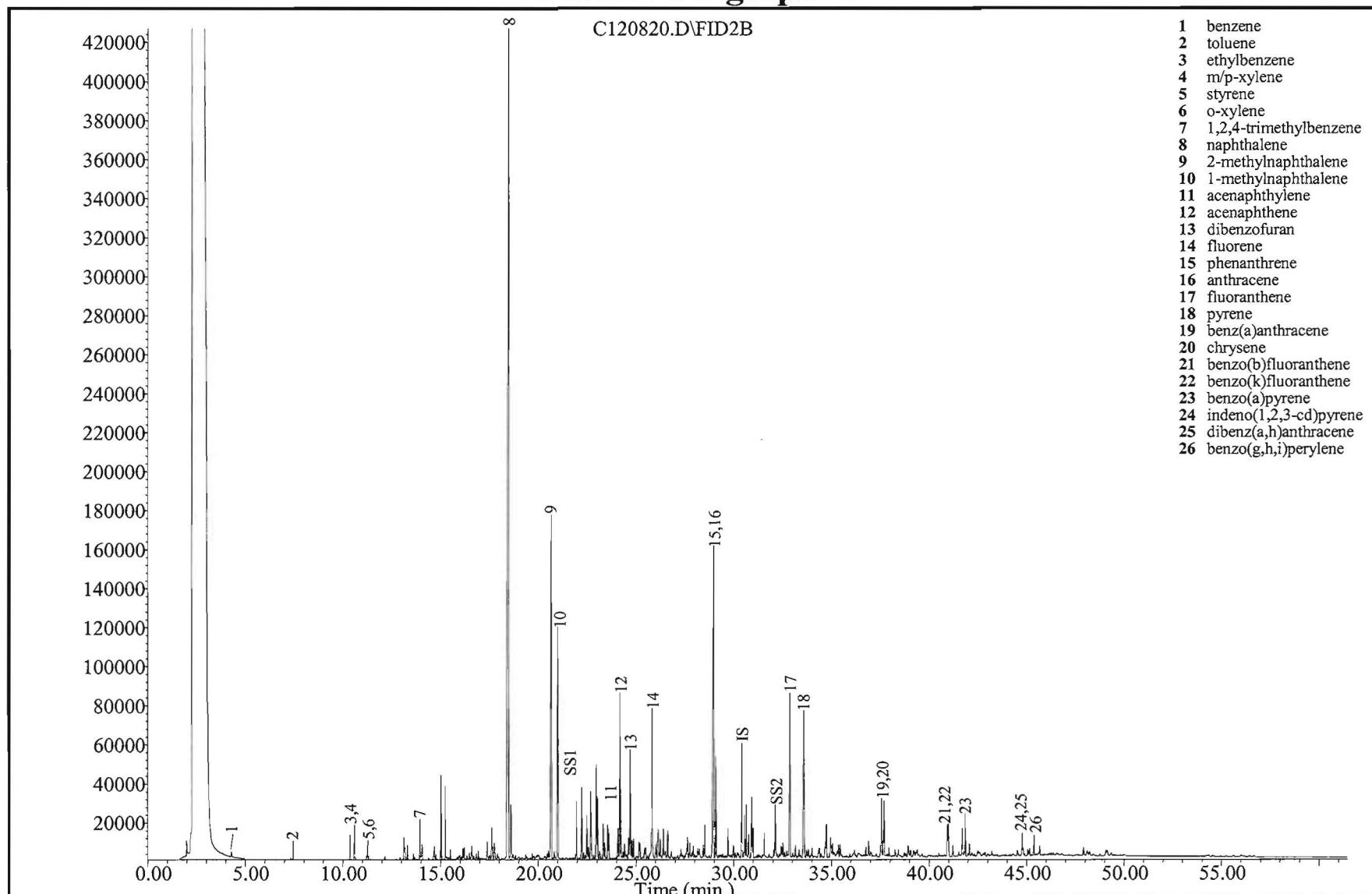
SS2 – 5a-androstane

Field ID: MW-105D-112305

Laboratory ID: CH051203-01

Method: EPA 8100 mod.

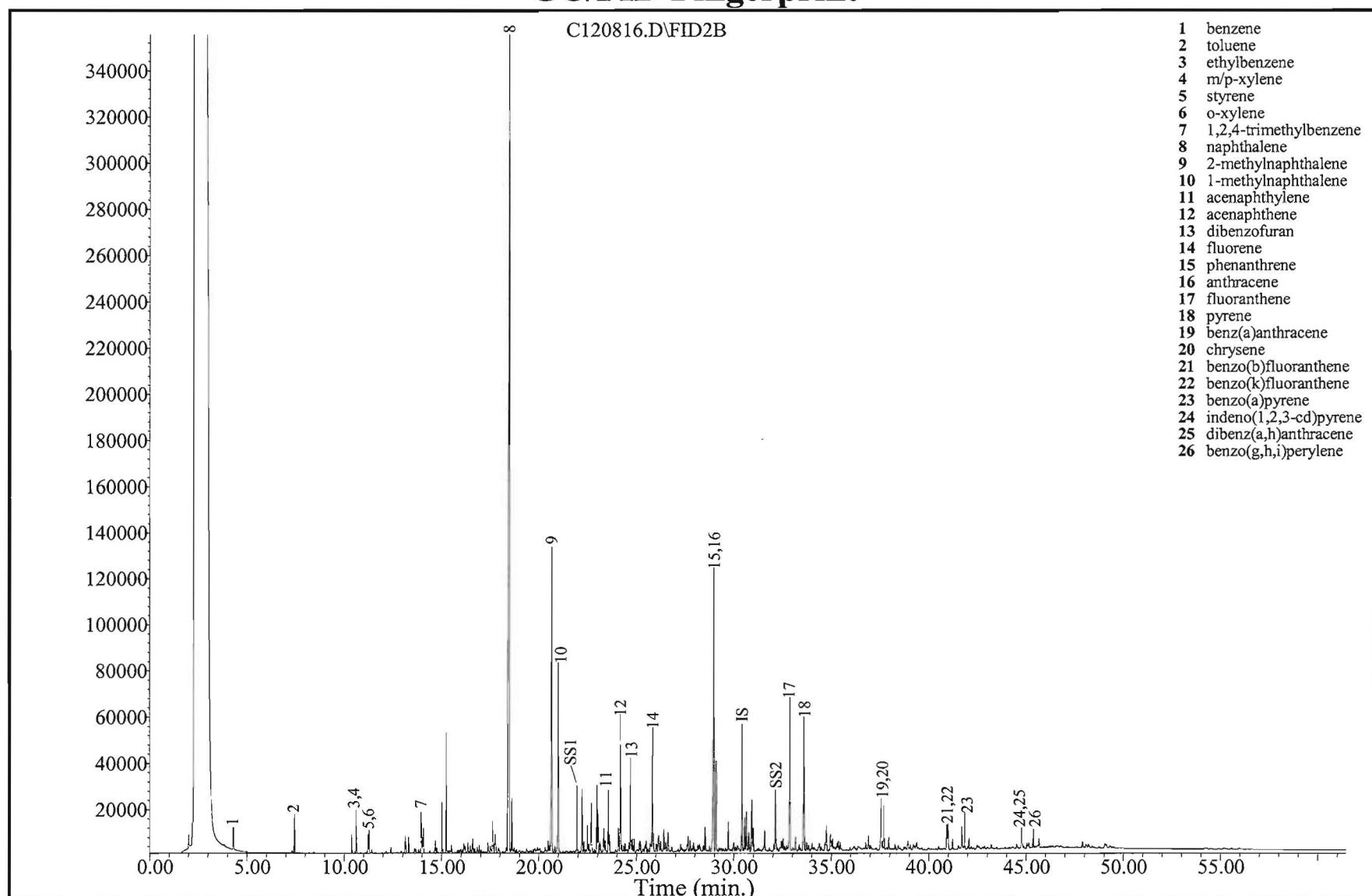
GC/FID Fingerprint



IS - *o*-terphenyl
 SS1 - 2-fluorobiphenyl
 SS2 - 5*a*-androstane

Field ID: MW-116BD-112305
 Laboratory ID: CH051203-02
 Method: EPA 8100 mod.

GC/FID Fingerprint

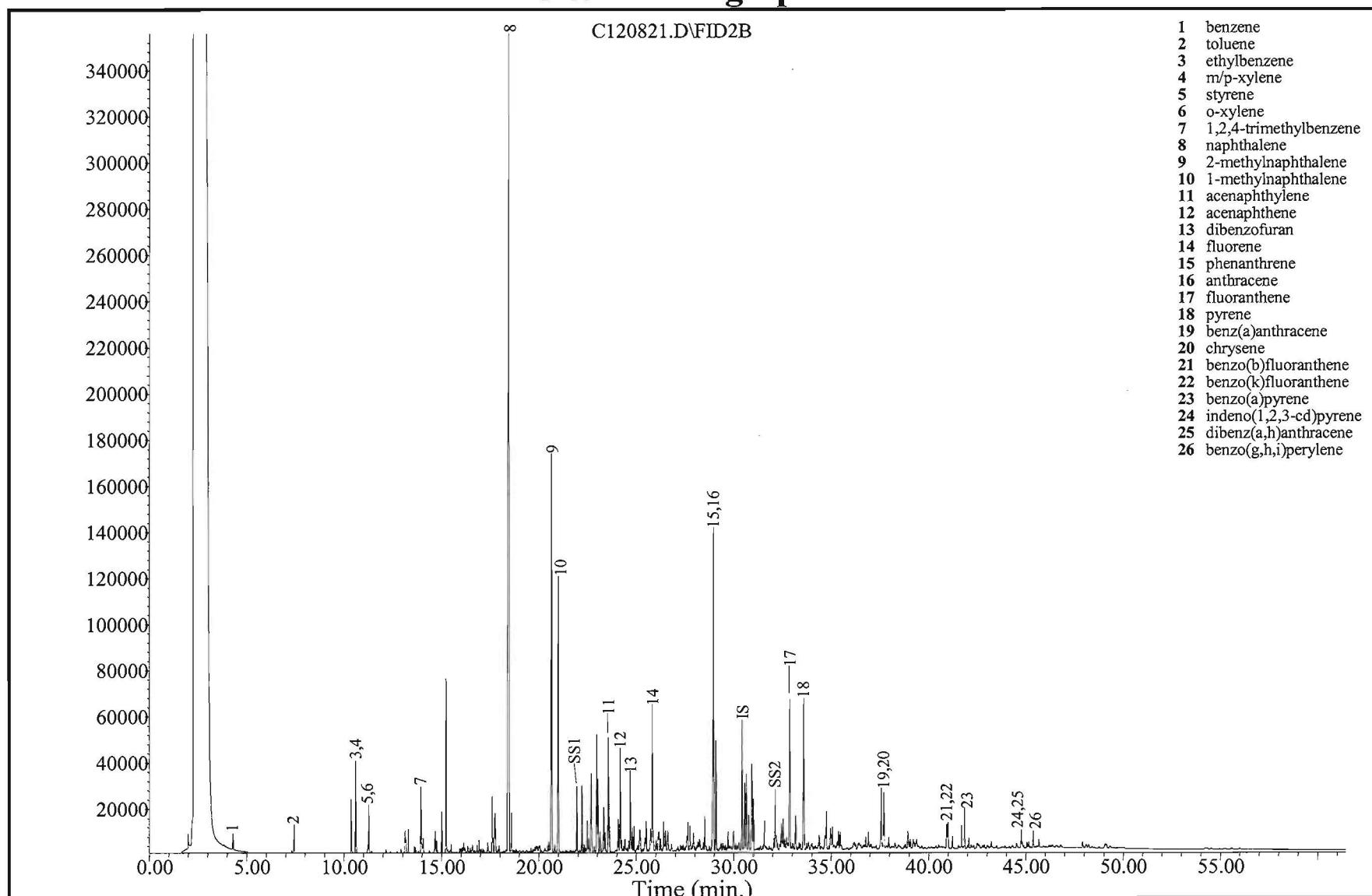


Field ID: MW-102AD-112305

Laboratory ID: CH051203-03

Method: EPA 8100 mod.

GC/FID Fingerprint



IS - *o*-terphenyl

SS1 - 2-fluorobiphenyl

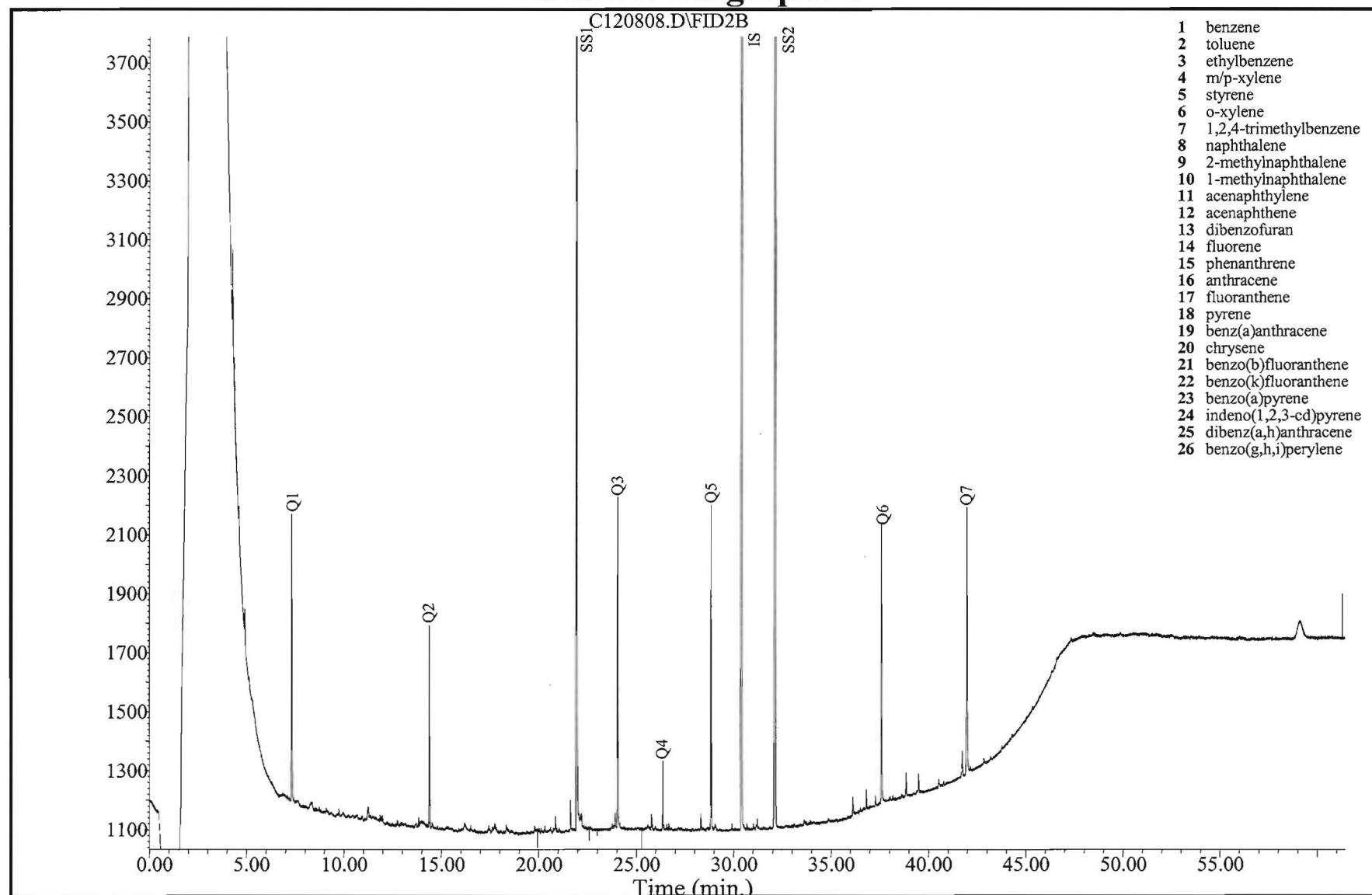
SS2 - 5a-androstane

Field ID: MW-112BD-112305

Laboratory ID: CH051203-04

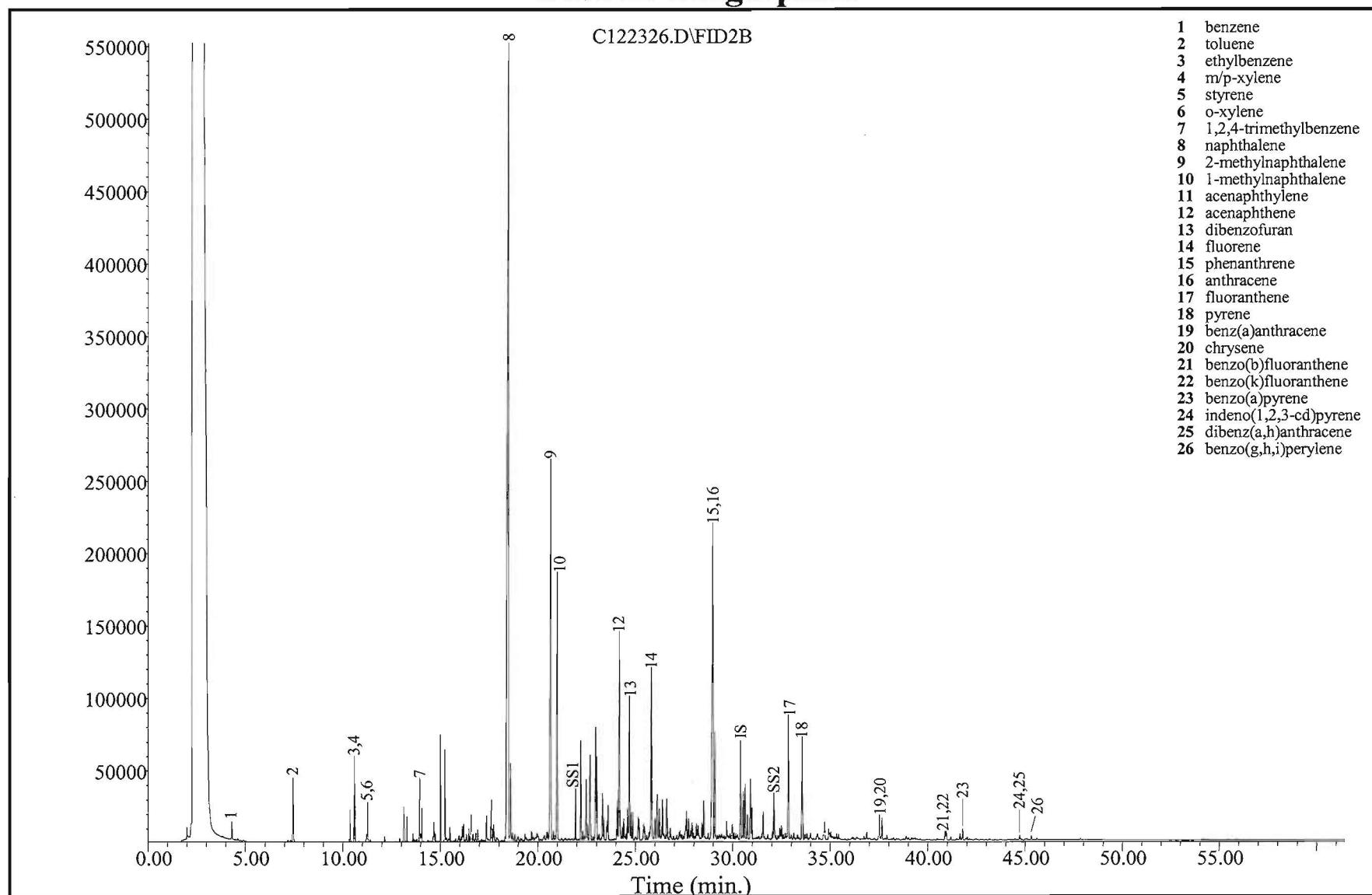
Method: EPA 8100 mod.

GC/FID Fingerprint



Field ID: Method Blank
Laboratory ID: CH051207-MB
Method: EPA 8100 mod.

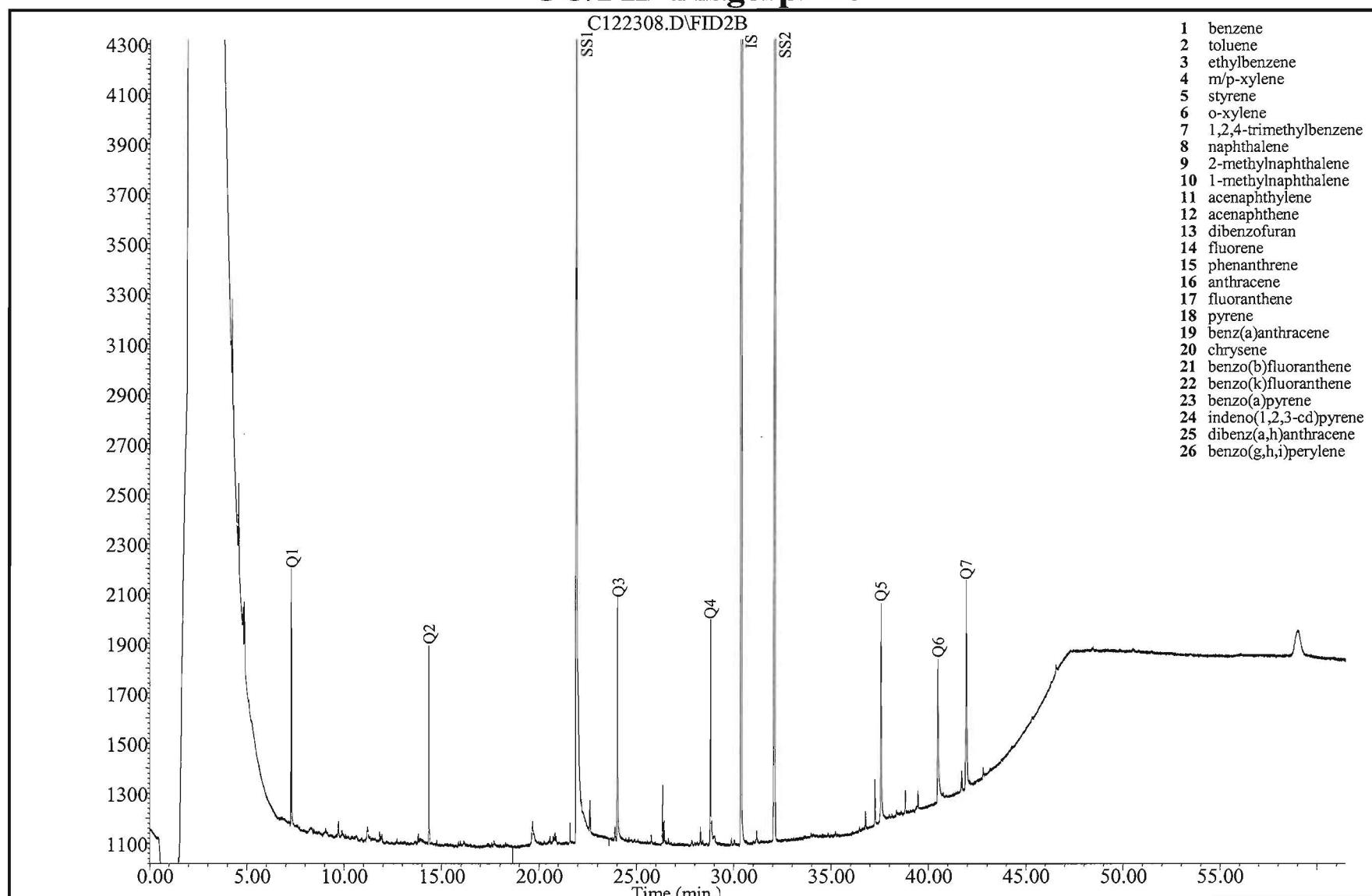
GC/FID Fingerprint



IS – *o*-terphenyl
 SS1 – 2-fluorobiphenyl
 SS2 – 5*a*-androstane

Field ID: MW-107D-120605
 Laboratory ID: CH051208-01
 Method: EPA 8100 mod.

GC/FID Fingerprint



Field ID: Method Blank
Laboratory ID: CH051212-MB2
Method: EPA 8100 mod.

Appendix C

Semivolatile Concentrations

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MB1 | | |
| File ID: | E010309.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|-------------------------------|-----------------------|-----|-----|----------|
| SVOC COMPOUNDS: | | | | |
| Benzene | U | 200 | 100 | |
| C1-Benzene | U | 200 | 100 | |
| C2-Benzenes | U | 200 | 100 | |
| C3-Benzenes | U | 200 | 100 | |
| C4-Benzenes | U | 200 | 100 | |
| C5-Benzenes | U | 200 | 100 | |
| Pyridine | U | 200 | 100 | |
| N-nitrosodimethylamine | U | 200 | 100 | |
| Toluene | U | 200 | 100 | |
| Ethylbenzene | U | 200 | 100 | |
| m/p-Xylenes | U | 200 | 100 | |
| Styrene | U | 200 | 100 | |
| o-Xylene | U | 200 | 100 | |
| Isopropylbenzene | U | 200 | 100 | |
| Propylbenzene | U | 200 | 100 | |
| 1,3,5-Trimethylbenzene | U | 200 | 100 | |
| tert-Butylbenzene | U | 200 | 100 | |
| 1,2,4-Trimethylbenzene | U | 200 | 100 | |
| sec-Butylbenzene | U | 200 | 100 | |
| Phenol | U | 200 | 100 | |
| bis(2-Chloroethyl)ether | U | 200 | 100 | |
| Aniline | U | 200 | 100 | |
| 2-Chlorophenol | U | 200 | 100 | |
| 1,3-Dichlorobenzene | U | 200 | 100 | |
| 1,4-Dichlorobenzene | U | 200 | 100 | |
| p-Isopropyltoluene | U | 200 | 100 | |
| Benzyl Alcohol | U | 200 | 100 | |
| 2-Methylphenol (m-cresol) | U | 200 | 100 | |
| 1,2-Dichlorobenzene | U | 200 | 100 | |
| 3,4-Methylphenol (o,p-cresol) | U | 200 | 100 | |
| bis(2-chloroisopropyl)ether | U | 200 | 100 | |
| n-Butylbenzene | U | 200 | 100 | |
| N-nitroso-di-n-propylamine | U | 200 | 100 | |
| Hexachloroethane | U | 200 | 100 | |
| Nitrobenzene | U | 200 | 100 | |
| Isophorone | U | 200 | 100 | |
| 2-Nitrophenol | U | 200 | 100 | |
| 2,4-Dimethylphenol | U | 200 | 100 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MB1 | | |
| File ID: | E010309.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------------|-----------------------|-------|-----|----------|
| bis(2-Chloroethoxy)methane | U | 200 | 100 | |
| 1,2,4-Trichlorobenzene | U | 200 | 100 | |
| Naphthalene | U | 200 | 100 | |
| C1-Naphthalenes | U | 200 | 100 | |
| C2-Naphthalenes | U | 200 | 100 | |
| C3-Naphthalenes | U | 200 | 100 | |
| C4-Naphthalenes | U | 200 | 100 | |
| 2,4-Dichlorophenol | U | 1,000 | 500 | |
| 4-Chloroaniline | U | 200 | 100 | |
| Hexachlorobutadiene | U | 200 | 100 | |
| 1,2,3-Trichlorobenzene | U | 200 | 100 | |
| 4-Chloro-3-methylphenol | U | 200 | 100 | |
| 2-Methylnaphthalene | U | 200 | 100 | |
| 1-Methylnaphthalene | U | 200 | 100 | |
| Hexachlorocyclopentadiene | U | 1,000 | 500 | |
| 2,4,6-Trichlorophenol | U | 200 | 100 | |
| 2,4,5-Trichlorophenol | U | 200 | 100 | |
| 2-Chloronaphthalene | U | 200 | 100 | |
| 2-Nitroaniline | U | 200 | 100 | |
| Dimethylphthalate | U | 200 | 100 | |
| Acenaphthylene | U | 200 | 100 | |
| 3-Nitroaniline | U | 200 | 100 | |
| Acenaphthene | U | 200 | 100 | |
| 2,4-Dinitrophenol | U | 1,000 | 500 | |
| 4-Nitrophenol | U | 1,000 | 500 | |
| Dibenzofuran | U | 200 | 100 | |
| 2,3,4,6-Tetrachlorophenol | U | 200 | 100 | |
| Diethylphthalate | U | 200 | 100 | |
| 4-Chlorophenyl-phenylether | U | 200 | 100 | |
| Fluorene | U | 200 | 100 | |
| C1-Fluorenes | U | 200 | 100 | |
| C2-Fluorenes | U | 200 | 100 | |
| C3-Fluorenes | U | 200 | 100 | |
| 4-Nitroaniline | U | 200 | 100 | |
| 4,6-Dinitro-2-methylphenol | U | 1,000 | 500 | |
| Diphenylamine | U | 200 | 100 | |
| 4-Bromophenyl-phenylether | U | 200 | 100 | |
| Hexachlorobenzene | U | 200 | 100 | |
| Pentachlorophenol | U | 1,000 | 500 | |
| Phenanthrene | U | 200 | 100 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MB1 | | |
| File ID: | E010309.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|-----|----------|
| Anthracene | U | 200 | 100 | |
| C1-Phenanthrenes/Anthracenes | U | 200 | 100 | |
| C2-Phenanthrenes/Anthracenes | U | 200 | 100 | |
| C3-Phenanthrenes/Anthracenes | U | 200 | 100 | |
| Retene | U | 200 | 100 | |
| C4-Phenanthrenes/Anthracenes | U | 200 | 100 | |
| Dibenzothiophenes | U | 200 | 100 | |
| C1-Dibenzothiophenes | U | 200 | 100 | |
| C2-Dibenzothiophenes | U | 200 | 100 | |
| C3-Dibenzothiophenes | U | 200 | 100 | |
| C4-Dibenzothiophenes | U | 200 | 100 | |
| Carbazole | U | 200 | 100 | |
| Di-n-butylphthalate | U | 200 | 100 | |
| Fluoranthene | U | 200 | 100 | |
| Pyrene | U | 200 | 100 | |
| Benzo(b/c)fluorenes | U | 200 | 100 | |
| 2-Methylfluorene | U | 200 | 100 | |
| 4-Methylfluorene | U | 200 | 100 | |
| 1-Methylfluorene | U | 200 | 100 | |
| C1-Fluoranthenes/Pyrenes | U | 200 | 100 | |
| C2-Fluoranthenes/Pyrenes | U | 200 | 100 | |
| C3-Fluoranthenes/Pyrenes | U | 200 | 100 | |
| Butylbenzylphthalate | U | 200 | 100 | |
| Benz[a]anthracene | U | 200 | 100 | |
| Chrysene | U | 200 | 100 | |
| C1-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | |
| C2-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | |
| C3-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | |
| C4-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | |
| bis(2-Ethylhexyl)phthalate | U | 200 | 100 | |
| Di-n-octylphthalate | U | 200 | 100 | |
| Benzo[b]fluoranthene | U | 200 | 100 | |
| Benzo[k]fluoranthene | U | 200 | 100 | |
| Benzo[a]pyrene | U | 200 | 100 | |
| Benzo[e]pyrene | U | 200 | 100 | |
| Perylene | U | 200 | 100 | |
| Indeno[1,2,3-cd]pyrene | U | 200 | 100 | |
| Dibenz[a,h]anthracene | U | 200 | 100 | |
| Benzo[g,h,i]perylene | U | 200 | 100 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MB1 | | |
| File ID: | E010309.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Toluene-d8 | 81 | 50 - 120 | | Limits |
| 4-Bromofluorobenzene | 90 | 50 - 120 | | |
| Phenol-d5 | 70 | 50 - 120 | | |
| 2-Fluorophenol | 80 | 50 - 120 | | |
| Nitrobenzene-d5 | 113 | 50 - 120 | | |
| 2-Fluorobiphenyl | 99 | 50 - 120 | | |
| 2,4,6-Tribromophenol | 71 | 50 - 120 | | |
| p-Terphenyl-d14 | 99 | 50 - 120 | | |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MBS1 | Matrix: | NAPL |
| File ID: | E010310.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | El Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|-------------------------------|-----------------------|-----|-----|----------|
| SVOC COMPOUNDS: | | | | |
| Benzene | U | 200 | 100 | NA |
| C1-Benzene | U | 200 | 100 | NA |
| C2-Benzenes | U | 200 | 100 | NA |
| C3-Benzenes | U | 200 | 100 | NA |
| C4-Benzenes | U | 200 | 100 | NA |
| C5-Benzenes | U | 200 | 100 | NA |
| Pyridine | 4,430 | 200 | 100 | 89% |
| N-nitrosodimethylamine | 4,780 | 200 | 100 | 96% |
| Toluene | U | 200 | 100 | NA |
| Ethylbenzene | U | 200 | 100 | NA |
| m/p-Xylenes | U | 200 | 100 | NA |
| Styrene | U | 200 | 100 | NA |
| o-Xylene | U | 200 | 100 | NA |
| Isopropylbenzene | U | 200 | 100 | NA |
| Propylbenzene | U | 200 | 100 | NA |
| 1,3,5-Trimethylbenzene | U | 200 | 100 | NA |
| tert-Butylbenzene | U | 200 | 100 | NA |
| 1,2,4-Trimethylbenzene | U | 200 | 100 | NA |
| sec-Butylbenzene | U | 200 | 100 | NA |
| Phenol | 4,300 | 200 | 100 | 86% |
| bis(2-Chloroethyl)ether | 4,310 | 200 | 100 | 86% |
| Aniline | 4,600 | 200 | 100 | 92% |
| 2-Chlorophenol | 4,370 | 200 | 100 | 87% |
| 1,3-Dichlorobenzene | 4,710 | 200 | 100 | 94% |
| 1,4-Dichlorobenzene | 4,700 | 200 | 100 | 94% |
| p-Isopropyltoluene | U | 200 | 100 | NA |
| Benzyl Alcohol | 3,640 | 200 | 100 | 73% |
| 2-Methylphenol (m-cresol) | 4,530 | 200 | 100 | 91% |
| 1,2-Dichlorobenzene | 4,740 | 200 | 100 | 95% |
| 3,4-Methylphenol (o,p-cresol) | 4,510 | 200 | 100 | 90% |
| bis(2-chloroisopropyl)ether | 4,720 | 200 | 100 | 94% |
| n-Butylbenzene | U | 200 | 100 | NA |
| N-nitroso-di-n-propylamine | 5,040 | 200 | 100 | 101% |
| Hexachloroethane | 4,440 | 200 | 100 | 89% |
| Nitrobenzene | 5,570 | 200 | 100 | 111% |
| Isophorone | 5,500 | 200 | 100 | 110% |
| 2-Nitrophenol | 5,830 | 200 | 100 | 117% |
| 2,4-Dimethylphenol | 3,400 | 200 | 100 | 68% |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MBS1 | Matrix: | NAPL |
| File ID: | E010310.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | El Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------------|-----------------------|-------|-----|----------|
| bis(2-Chloroethoxy)methane | 5,450 | 200 | 100 | 109% |
| 1,2,4-Trichlorobenzene | 5,950 | 200 | 100 | 119% |
| Naphthalene | 5,150 | 200 | 100 | 103% |
| C1-Naphthalenes | U | 200 | 100 | NA |
| C2-Naphthalenes | U | 200 | 100 | NA |
| C3-Naphthalenes | U | 200 | 100 | NA |
| C4-Naphthalenes | U | 200 | 100 | NA |
| 2,4-Dichlorophenol | 5,600 | 1,000 | 500 | 112% |
| 4-Chloroaniline | 5,690 | 200 | 100 | 114% |
| Hexachlorobutadiene | 3,120 | 200 | 100 | 62% |
| 1,2,3-Trichlorobenzene | 2,980 | 200 | 100 | 60% |
| 4-Chloro-3-methylphenol | 5,900 | 200 | 100 | 118% |
| 2-Methylnaphthalene | 5,280 | 200 | 100 | 106% |
| 1-Methylnaphthalene | 5,240 | 200 | 100 | 105% |
| Hexachlorocyclopentadiene | 4,780 | 1,000 | 500 | 96% |
| 2,4,6-Trichlorophenol | 5,260 | 200 | 100 | 105% |
| 2,4,5-Trichlorophenol | 5,420 | 200 | 100 | 108% |
| 2-Choronaphthalene | 4,900 | 200 | 100 | 98% |
| 2-Nitroaniline | 5,650 | 200 | 100 | 113% |
| Dimethylphthalate | 5,080 | 200 | 100 | 102% |
| Acenaphthylene | 4,810 | 200 | 100 | 96% |
| 3-Nitroaniline | 6,240 | 200 | 100 | 125% |
| Acenaphthene | 4,820 | 200 | 100 | 96% |
| 2,4-Dinitrophenol | 6,130 | 1,000 | 500 | 123% |
| 4-Nitrophenol | 5,320 | 1,000 | 500 | 106% |
| Dibenzofuran | 4,830 | 200 | 100 | 97% |
| 2,3,4,6-Tetrachlorophenol | 5,680 | 200 | 100 | 114% |
| Diethylphthalate | 5,040 | 200 | 100 | 101% |
| 4-Chlorophenyl-phenylether | 4,780 | 200 | 100 | 96% |
| Fluorene | 4,740 | 200 | 100 | 95% |
| C1-Fluorenes | U | 200 | 100 | NA |
| C2-Fluorenes | U | 200 | 100 | NA |
| C3-Fluorenes | U | 200 | 100 | NA |
| 4-Nitroaniline | 5,820 | 200 | 100 | 116% |
| 4,6-Dinitro-2-methylphenol | 6,000 | 1,000 | 500 | 120% |
| Diphenylamine | 5,240 | 200 | 100 | 105% |
| 4-Bromophenyl-phenylether | 5,280 | 200 | 100 | 106% |
| Hexachlorobenzene | 5,210 | 200 | 100 | 104% |
| Pentachlorophenol | 5,150 | 1,000 | 500 | 103% |
| Phenanthrene | 4,700 | 200 | 100 | 94% |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MBS1 | Matrix: | NAPL |
| File ID: | E010310.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|-----|----------|
| Anthracene | 4,780 | 200 | 100 | 96% |
| C1-Phenanthrenes/Anthracenes | U | 200 | 100 | NA |
| C2-Phenanthrenes/Anthracenes | U | 200 | 100 | NA |
| C3-Phenanthrenes/Anthracenes | U | 200 | 100 | NA |
| Retene | U | 200 | 100 | NA |
| C4-Phenanthrenes/Anthracenes | U | 200 | 100 | NA |
| Dibenzothiophenes | U | 200 | 100 | NA |
| C1-Dibenzothiophenes | U | 200 | 100 | NA |
| C2-Dibenzothiophenes | U | 200 | 100 | NA |
| C3-Dibenzothiophenes | U | 200 | 100 | NA |
| C4-Dibenzothiophenes | U | 200 | 100 | NA |
| Carbazole | 5,580 | 200 | 100 | 112% |
| Di-n-butylphthalate | 4,910 | 200 | 100 | 98% |
| Fluoranthene | 5,020 | 200 | 100 | 100% |
| Pyrene | 5,010 | 200 | 100 | 100% |
| Benzo(b/c)fluorenes | U | 200 | 100 | NA |
| 2-Methylfluorene | U | 200 | 100 | NA |
| 4-Methylfluorene | U | 200 | 100 | NA |
| 1-Methylfluorene | U | 200 | 100 | NA |
| C1-Fluoranthenes/Pyrenes | U | 200 | 100 | NA |
| C2-Fluoranthenes/Pyrenes | U | 200 | 100 | NA |
| C3-Fluoranthenes/Pyrenes | U | 200 | 100 | NA |
| Butylbenzylphthalate | 5,520 | 200 | 100 | 110% |
| Benz[a]anthracene | 5,190 | 200 | 100 | 104% |
| Chrysene | 4,840 | 200 | 100 | 97% |
| C1-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | NA |
| C2-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | NA |
| C3-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | NA |
| C4-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | NA |
| bis(2-Ethylhexyl)phthalate | 5,220 | 200 | 100 | 104% |
| Di-n-octylphthalate | 5,530 | 200 | 100 | 111% |
| Benzo[b]fluoranthene | 5,970 | 200 | 100 | 119% |
| Benzo[k]fluoranthene | 5,150 | 200 | 100 | 103% |
| Benzo[a]pyrene | 5,680 | 200 | 100 | 114% |
| Benzo[e]pyrene | U | 200 | 100 | NA |
| Perylene | U | 200 | 100 | NA |
| Indeno[1,2,3-cd]pyrene | 6,030 | 200 | 100 | 121% |
| Dibenzo[a,h]anthracene | 5,670 | 200 | 100 | 113% |
| Benzo[g,h,i]perylene | 5,690 | 200 | 100 | 114% |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MBS1 | | |
| File ID: | E010310.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH051212-MB1 | Injection Volume (μ l): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Toluene-d8 | 78 | 50 - 120 | | Limits |
| 4-Bromofluorobenzene | 88 | 50 - 120 | | |
| Phenol-d5 | 86 | 50 - 120 | | |
| 2-Fluorophenol | 92 | 50 - 120 | | |
| Nitrobenzene-d5 | 114 | 50 - 120 | | |
| 2-Fluorobiphenyl | 98 | 50 - 120 | | |
| 2,4,6-Tribromophenol | 107 | 50 - 120 | | |
| p-Terphenyl-d14 | 103 | 50 - 120 | | |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-105-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID: | CH051203-01 | | |
| File ID: | E010320.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0114 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|-------------------------------|-----------------------|----|-----|----------|
| SVOC COMPOUNDS: | | | | |
| Benzene | | U | 175 | 87.5 |
| C1-Benzene | 148 | J | 175 | 87.5 |
| C2-Benzenes | 770 | | 175 | 87.5 |
| C3-Benzenes | 2,960 | | 175 | 87.5 |
| C4-Benzenes | 916 | | 175 | 87.5 |
| C5-Benzenes | 167 | J | 175 | 87.5 |
| Pyridine | | U | 175 | 87.5 |
| N-nitrosodimethylamine | | U | 175 | 87.5 |
| Toluene | 228 | | 175 | 87.5 |
| Ethylbenzene | 516 | | 175 | 87.5 |
| m/p-Xylenes | 736 | | 175 | 87.5 |
| Styrene | | U | 175 | 87.5 |
| o-Xylene | 399 | | 175 | 87.5 |
| Isopropylbenzene | 189 | | 175 | 87.5 |
| Propylbenzene | | U | 175 | 87.5 |
| 1,3,5-Trimethylbenzene | 1,140 | | 175 | 87.5 |
| tert-Butylbenzene | 380 | | 175 | 87.5 |
| 1,2,4-Trimethylbenzene | 2,920 | | 175 | 87.5 |
| sec-Butylbenzene | | U | 175 | 87.5 |
| Phenol | | U | 175 | 87.5 |
| bis(2-Chloroethyl)ether | | U | 175 | 87.5 |
| Aniline | | U | 175 | 87.5 |
| 2-Chlorophenol | | U | 175 | 87.5 |
| 1,3-Dichlorobenzene | | U | 175 | 87.5 |
| 1,4-Dichlorobenzene | | U | 175 | 87.5 |
| p-Isopropyltoluene | 187 | | 175 | 87.5 |
| Benzyl Alcohol | | U | 175 | 87.5 |
| 2-Methylphenol (m-cresol) | | U | 175 | 87.5 |
| 1,2-Dichlorobenzene | | U | 175 | 87.5 |
| 3,4-Methylphenol (o,p-cresol) | | U | 175 | 87.5 |
| bis(2-chloroisopropyl)ether | | U | 175 | 87.5 |
| n-Butylbenzene | 98.9 | J | 175 | 87.5 |
| N-nitroso-di-n-propylamine | | U | 175 | 87.5 |
| Hexachloroethane | 222 | | 175 | 87.5 |
| Nitrobenzene | | U | 175 | 87.5 |
| Isophorone | | U | 175 | 87.5 |
| 2-Nitrophenol | | U | 175 | 87.5 |
| 2,4-Dimethylphenol | 106 | J | 175 | 87.5 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-105-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-01 | | |
| File ID: | E010320.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0114 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | El Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------------|-----------------------|----|-----|----------|
| bis(2-Chloroethoxy)methane | | U | 175 | 87.5 |
| 1,2,4-Trichlorobenzene | | U | 175 | 87.5 |
| Naphthalene | 69,000 | D | 175 | 87.5 |
| C1-Naphthalenes | 15,400 | | 175 | 87.5 |
| C2-Naphthalenes | 9,570 | | 175 | 87.5 |
| C3-Naphthalenes | 3,260 | | 175 | 87.5 |
| C4-Naphthalenes | 928 | | 175 | 87.5 |
| 2,4-Dichlorophenol | | U | 877 | 439 |
| 4-Chloroaniline | | U | 175 | 87.5 |
| Hexachlorobutadiene | | U | 175 | 87.5 |
| 1,2,3-Trichlorobenzene | | U | 175 | 87.5 |
| 4-Chloro-3-methylphenol | | U | 175 | 87.5 |
| 2-Methylnaphthalene | 13,200 | | 175 | 87.5 |
| 1-Methylnaphthalene | 8,570 | | 175 | 87.5 |
| Hexachlorocyclopentadiene | | U | 877 | 439 |
| 2,4,6-Trichlorophenol | | U | 175 | 87.5 |
| 2,4,5-Trichlorophenol | | U | 175 | 87.5 |
| 2-Chloronaphthalene | | U | 175 | 87.5 |
| 2-Nitroaniline | | U | 175 | 87.5 |
| Dimethylphthalate | | U | 175 | 87.5 |
| Acenaphthylene | 1,220 | | 175 | 87.5 |
| 3-Nitroaniline | | U | 175 | 87.5 |
| Acenaphthene | 9,740 | | 175 | 87.5 |
| 2,4-Dinitrophenol | | U | 877 | 439 |
| 4-Nitrophenol | | U | 877 | 439 |
| Dibenzofuran | 8,640 | | 175 | 87.5 |
| 2,3,4,6-Tetrachlorophenol | | U | 175 | 87.5 |
| Diethylphthalate | | U | 175 | 87.5 |
| 4-Chlorophenyl-phenylether | | U | 175 | 87.5 |
| Fluorene | 11,100 | | 175 | 87.5 |
| C1-Fluorennes | 2,790 | | 175 | 87.5 |
| C2-Fluorennes | 1,140 | | 175 | 87.5 |
| C3-Fluorennes | 675 | | 175 | 87.5 |
| 4-Nitroaniline | | U | 175 | 87.5 |
| 4,6-Dinitro-2-methylphenol | | U | 877 | 439 |
| Diphenylamine | | U | 175 | 87.5 |
| 4-Bromophenyl-phenylether | | U | 175 | 87.5 |
| Hexachlorobenzene | | U | 175 | 87.5 |
| Pentachlorophenol | | U | 877 | 439 |
| Phenanthrene | 44,600 | D | 175 | 87.5 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-105-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-01 | | |
| File ID: | E010320.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0114 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|------|----------|
| Anthracene | 6,300 | 175 | 87.5 | |
| C1-Phenanthrenes/Anthracenes | 8,820 | 175 | 87.5 | |
| C2-Phenanthrenes/Anthracenes | 3,700 | 175 | 87.5 | |
| C3-Phenanthrenes/Anthracenes | 1,350 | 175 | 87.5 | |
| Retene | | U | 175 | 87.5 |
| C4-Phenanthrenes/Anthracenes | 281 | 175 | 87.5 | |
| Dibenzothiophenes | 2,500 | 175 | 87.5 | |
| C1-Dibenzothiophenes | 1,430 | 175 | 87.5 | |
| C2-Dibenzothiophenes | 937 | 175 | 87.5 | |
| C3-Dibenzothiophenes | 379 | 175 | 87.5 | |
| C4-Dibenzothiophenes | 136 | J | 175 | 87.5 |
| Carbazole | 4,080 | 175 | 87.5 | |
| Di-n-butylphthalate | | U | 175 | 87.5 |
| Fluoranthene | 14,400 | 175 | 87.5 | |
| Pyrene | 11,200 | 175 | 87.5 | |
| Benzo(b/c)fluorenes | 2,470 | 175 | 87.5 | |
| 2-Methylfluorene | 930 | 175 | 87.5 | |
| 4-Methylfluorene | 696 | 175 | 87.5 | |
| 1-Methylfluorene | 762 | 175 | 87.5 | |
| C1-Fluoranthenes/Pyrenes | 9,120 | 175 | 87.5 | |
| C2-Fluoranthenes/Pyrenes | 2,770 | 175 | 87.5 | |
| C3-Fluoranthenes/Pyrenes | 945 | 175 | 87.5 | |
| Butylbenzylphthalate | | U | 175 | 87.5 |
| Benz[a]anthracene | 6,830 | 175 | 87.5 | |
| Chrysene | 5,940 | 175 | 87.5 | |
| C1-Benz[a]anthracenes/Chrysenes | 2,590 | 175 | 87.5 | |
| C2-Benz[a]anthracenes/Chrysenes | 1,040 | 175 | 87.5 | |
| C3-Benz[a]anthracenes/Chrysenes | 603 | 175 | 87.5 | |
| C4-Benz[a]anthracenes/Chrysenes | | U | 175 | 87.5 |
| bis(2-Ethylhexyl)phthalate | | U | 175 | 87.5 |
| Di-n-octylphthalate | | U | 175 | 87.5 |
| Benzo[b]fluoranthene | 4,720 | 175 | 87.5 | |
| Benzo[k]fluoranthene | 4,840 | 175 | 87.5 | |
| Benzo[a]pyrene | 5,820 | 175 | 87.5 | |
| Benzo[e]pyrene | 3,480 | 175 | 87.5 | |
| Perylene | 1,570 | 175 | 87.5 | |
| Indeno[1,2,3-cd]pyrene | 3,350 | 175 | 87.5 | |
| Dibenz[a,h]anthracene | 1,120 | 175 | 87.5 | |
| Benzo[g,h,i]perylene | 3,150 | 175 | 87.5 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-105-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-01 | | |
| File ID: | E010320.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0114 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH051212-MB1 | Injection Volume (µl): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Toluene-d8 | 93 | 50 - 120 | | Limits |
| 4-Bromofluorobenzene | 91 | 50 - 120 | | |
| Phenol-d5 | 89 | 50 - 120 | | |
| 2-Fluorophenol | 83 | 50 - 120 | | |
| Nitrobenzene-d5 | 96 | 50 - 120 | | |
| 2-Fluorobiphenyl | 101 | 50 - 120 | | |
| 2,4,6-Tribromophenol | 94 | 50 - 120 | | |
| p-Terphenyl-d14 | 111 | 50 - 120 | | |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-116BD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-02 | | |
| File ID: | E010321.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0128 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|-------------------------------|-----------------------|-----|------|----------|
| SVOC COMPOUNDS: | | | | |
| Benzene | 298 | 156 | 78.0 | |
| C1-Benzene | 945 | 156 | 78.0 | |
| C2-Benzenes | 2,910 | 156 | 78.0 | |
| C3-Benzenes | 3,270 | 156 | 78.0 | |
| C4-Benzenes | 1,810 | 156 | 78.0 | |
| C5-Benzenes | 512 | 156 | 78.0 | |
| Pyridine | U | 156 | 78.0 | |
| N-nitrosodimethylamine | U | 156 | 78.0 | |
| Toluene | 1,440 | 156 | 78.0 | |
| Ethylbenzene | 1,720 | 156 | 78.0 | |
| m/p-Xylenes | 2,920 | 156 | 78.0 | |
| Styrene | 254 | 156 | 78.0 | |
| o-Xylene | 1,390 | 156 | 78.0 | |
| Isopropylbenzene | 266 | 156 | 78.0 | |
| Propylbenzene | 158 | 156 | 78.0 | |
| 1,3,5-Trimethylbenzene | 965 | 156 | 78.0 | |
| tert-Butylbenzene | 359 | 156 | 78.0 | |
| 1,2,4-Trimethylbenzene | 2,500 | 156 | 78.0 | |
| sec-Butylbenzene | U | 156 | 78.0 | |
| Phenol | U | 156 | 78.0 | |
| bis(2-Chloroethyl)ether | U | 156 | 78.0 | |
| Aniline | U | 156 | 78.0 | |
| 2-Chlorophenol | U | 156 | 78.0 | |
| 1,3-Dichlorobenzene | U | 156 | 78.0 | |
| 1,4-Dichlorobenzene | U | 156 | 78.0 | |
| p-Isopropyltoluene | 282 | 156 | 78.0 | |
| Benzyl Alcohol | U | 156 | 78.0 | |
| 2-Methylphenol (m-cresol) | 145 | J | 156 | 78.0 |
| 1,2-Dichlorobenzene | U | 156 | 78.0 | |
| 3,4-Methylphenol (o,p-cresol) | 312 | 156 | 78.0 | |
| bis(2-chloroisopropyl)ether | U | 156 | 78.0 | |
| n-Butylbenzene | 202 | 156 | 78.0 | |
| N-nitroso-di-n-propylamine | U | 156 | 78.0 | |
| Hexachloroethane | U | 156 | 78.0 | |
| Nitrobenzene | U | 156 | 78.0 | |
| Isophorone | U | 156 | 78.0 | |
| 2-Nitrophenol | U | 156 | 78.0 | |
| 2,4-Dimethylphenol | U | 156 | 78.0 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-116BD-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-02 | | |
| File ID: | E010321.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0128 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------------|-----------------------|-----|------|----------|
| bis(2-Chloroethoxy)methane | U | 156 | 78.0 | |
| 1,2,4-Trichlorobenzene | U | 156 | 78.0 | |
| Naphthalene | 102,000 | D | 156 | 78.0 |
| C1-Naphthalenes | 42,100 | D | 156 | 78.0 |
| C2-Naphthalenes | 16,300 | | 156 | 78.0 |
| C3-Naphthalenes | 6,470 | | 156 | 78.0 |
| C4-Naphthalenes | 1,870 | | 156 | 78.0 |
| 2,4-Dichlorophenol | U | 781 | 391 | |
| 4-Chloroaniline | U | 156 | 78.0 | |
| Hexachlorobutadiene | U | 156 | 78.0 | |
| 1,2,3-Trichlorobenzene | U | 156 | 78.0 | |
| 4-Chloro-3-methylphenol | U | 156 | 78.0 | |
| 2-Methylnaphthalene | 37,000 | D | 156 | 78.0 |
| 1-Methylnaphthalene | 22,400 | D | 156 | 78.0 |
| Hexachlorocyclopentadiene | U | 781 | 391 | |
| 2,4,6-Trichlorophenol | U | 156 | 78.0 | |
| 2,4,5-Trichlorophenol | U | 156 | 78.0 | |
| 2-Chloronaphthalene | U | 156 | 78.0 | |
| 2-Nitroaniline | U | 156 | 78.0 | |
| Dimethylphthalate | U | 156 | 78.0 | |
| Acenaphthylene | 2,150 | | 156 | 78.0 |
| 3-Nitroaniline | U | 156 | 78.0 | |
| Acenaphthene | 9,220 | | 156 | 78.0 |
| 2,4-Dinitrophenol | U | 781 | 391 | |
| 4-Nitrophenol | U | 781 | 391 | |
| Dibenzofuran | 7,100 | | 156 | 78.0 |
| 2,3,4,6-Tetrachlorophenol | U | 156 | 78.0 | |
| Diethylphthalate | U | 156 | 78.0 | |
| 4-Chlorophenyl-phenylether | U | 156 | 78.0 | |
| Fluorene | 9,320 | | 156 | 78.0 |
| C1-Fluorennes | 3,460 | | 156 | 78.0 |
| C2-Fluorennes | 1,680 | | 156 | 78.0 |
| C3-Fluorennes | 878 | | 156 | 78.0 |
| 4-Nitroaniline | U | 156 | 78.0 | |
| 4,6-Dinitro-2-methylphenol | U | 781 | 391 | |
| Diphenylamine | U | 156 | 78.0 | |
| 4-Bromophenyl-phenylether | U | 156 | 78.0 | |
| Hexachlorobenzene | U | 156 | 78.0 | |
| Pentachlorophenol | U | 781 | 391 | |
| Phenanthrene | 36,900 | D | 156 | 78.0 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-116BD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-02 | | |
| File ID: | E010321.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0128 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|------|----------|
| Anthracene | 5,680 | 156 | 78.0 | |
| C1-Phenanthrenes/Anthracenes | 9,480 | 156 | 78.0 | |
| C2-Phenanthrenes/Anthracenes | 4,190 | 156 | 78.0 | |
| C3-Phenanthrenes/Anthracenes | 1,390 | 156 | 78.0 | |
| Retene | | U | 156 | 78.0 |
| C4-Phenanthrenes/Anthracenes | 276 | 156 | 78.0 | |
| Dibenzothiophenes | 2,170 | 156 | 78.0 | |
| C1-Dibenzothiophenes | 1,430 | 156 | 78.0 | |
| C2-Dibenzothiophenes | 842 | 156 | 78.0 | |
| C3-Dibenzothiophenes | 314 | 156 | 78.0 | |
| C4-Dibenzothiophenes | 88.3 | J | 156 | 78.0 |
| Carbazole | 2,930 | 156 | 78.0 | |
| Di-n-butylphthalate | | U | 156 | 78.0 |
| Fluoranthene | 10,200 | 156 | 78.0 | |
| Pyrene | 8,390 | 156 | 78.0 | |
| Benzo(b/c)fluorenes | 1,750 | 156 | 78.0 | |
| 2-Methylfluorene | 828 | 156 | 78.0 | |
| 4-Methylfluorene | 740 | 156 | 78.0 | |
| 1-Methylfluorene | 818 | 156 | 78.0 | |
| C1-Fluoranthenes/Pyrenes | 6,180 | 156 | 78.0 | |
| C2-Fluoranthenes/Pyrenes | 2,720 | 156 | 78.0 | |
| C3-Fluoranthenes/Pyrenes | 893 | 156 | 78.0 | |
| Butylbenzylphthalate | | U | 156 | 78.0 |
| Benz[a]anthracene | 4,620 | 156 | 78.0 | |
| Chrysene | 4,580 | 156 | 78.0 | |
| C1-Benz[a]anthracenes/Chrysenes | 2,420 | 156 | 78.0 | |
| C2-Benz[a]anthracenes/Chrysenes | 942 | 156 | 78.0 | |
| C3-Benz[a]anthracenes/Chrysenes | 532 | 156 | 78.0 | |
| C4-Benz[a]anthracenes/Chrysenes | | U | 156 | 78.0 |
| bis(2-Ethylhexyl)phthalate | | U | 156 | 78.0 |
| Di-n-octylphthalate | | U | 156 | 78.0 |
| Benzo[b]fluoranthene | 3,240 | 156 | 78.0 | |
| Benzo[k]fluoranthene | 3,040 | 156 | 78.0 | |
| Benzo[a]pyrene | 3,630 | 156 | 78.0 | |
| Benzo[e]pyrene | 2,390 | 156 | 78.0 | |
| Perylene | 929 | 156 | 78.0 | |
| Indeno[1,2,3-cd]pyrene | 2,000 | 156 | 78.0 | |
| Dibenzo[a,h]anthracene | 710 | 156 | 78.0 | |
| Benzo[g,h,i]perylene | 1,900 | 156 | 78.0 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-116BD-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-02 | | |
| File ID: | E010321.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0128 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH051212-MB1 | Injection Volume (µl): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Toluene-d8 | 85 | 50 - 120 | | Limits |
| 4-Bromofluorobenzene | 88 | 50 - 120 | | |
| Phenol-d5 | 86 | 50 - 120 | | |
| 2-Fluorophenol | 84 | 50 - 120 | | |
| Nitrobenzene-d5 | 106 | 50 - 120 | | |
| 2-Fluorobiphenyl | 98 | 50 - 120 | | |
| 2,4,6-Tribromophenol | 95 | 50 - 120 | | |
| p-Terphenyl-d14 | 103 | 50 - 120 | | |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-102AD-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-03 | | |
| File ID: | E010322.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0129 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|-------------------------------|-----------------------|-----|------|----------|
| SVOC COMPOUNDS: | | | | |
| Benzene | 1,370 | 155 | 77.5 | |
| C1-Benzene | 1,890 | 155 | 77.5 | |
| C2-Benzenes | 2,930 | 155 | 77.5 | |
| C3-Benzenes | 2,890 | 155 | 77.5 | |
| C4-Benzenes | 1,460 | 155 | 77.5 | |
| C5-Benzenes | 429 | 155 | 77.5 | |
| Pyridine | U | 155 | 77.5 | |
| N-nitrosodimethylamine | U | 155 | 77.5 | |
| Toluene | 2,810 | 155 | 77.5 | |
| Ethylbenzene | 1,220 | 155 | 77.5 | |
| m/p-Xylenes | 3,280 | 155 | 77.5 | |
| Styrene | 1,100 | 155 | 77.5 | |
| o-Xylene | 1,490 | 155 | 77.5 | |
| Isopropylbenzene | 142 | J | 77.5 | |
| Propylbenzene | 142 | J | 77.5 | |
| 1,3,5-Trimethylbenzene | 992 | 155 | 77.5 | |
| tert-Butylbenzene | 353 | 155 | 77.5 | |
| 1,2,4-Trimethylbenzene | 2,360 | 155 | 77.5 | |
| sec-Butylbenzene | U | 155 | 77.5 | |
| Phenol | 90.6 | J | 77.5 | |
| bis(2-Chloroethyl)ether | U | 155 | 77.5 | |
| Aniline | U | 155 | 77.5 | |
| 2-Chlorophenol | U | 155 | 77.5 | |
| 1,3-Dichlorobenzene | U | 155 | 77.5 | |
| 1,4-Dichlorobenzene | U | 155 | 77.5 | |
| p-Isopropyltoluene | 216 | 155 | 77.5 | |
| Benzyl Alcohol | U | 155 | 77.5 | |
| 2-Methylphenol (m-cresol) | 202 | 155 | 77.5 | |
| 1,2-Dichlorobenzene | U | 155 | 77.5 | |
| 3,4-Methylphenol (o,p-cresol) | 341 | 155 | 77.5 | |
| bis(2-chloroisopropyl)ether | U | 155 | 77.5 | |
| n-Butylbenzene | 169 | 155 | 77.5 | |
| N-nitroso-di-n-propylamine | U | 155 | 77.5 | |
| Hexachloroethane | U | 155 | 77.5 | |
| Nitrobenzene | U | 155 | 77.5 | |
| Isophorone | U | 155 | 77.5 | |
| 2-Nitrophenol | U | 155 | 77.5 | |
| 2,4-Dimethylphenol | U | 155 | 77.5 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-102AD-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-03 | | |
| File ID: | E010322.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0129 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | | RL | EDL | Comments |
|----------------------------|-----------------------|---|-----|------|----------|
| bis(2-Chloroethoxy)methane | | U | 155 | 77.5 | |
| 1,2,4-Trichlorobenzene | | U | 155 | 77.5 | |
| Naphthalene | 93,900 | D | 155 | 77.5 | |
| C1-Naphthalenes | 18,300 | | 155 | 77.5 | |
| C2-Naphthalenes | 11,600 | | 155 | 77.5 | |
| C3-Naphthalenes | 4,270 | | 155 | 77.5 | |
| C4-Naphthalenes | 1,290 | | 155 | 77.5 | |
| 2,4-Dichlorophenol | | U | 775 | 388 | |
| 4-Chloroaniline | | U | 155 | 77.5 | |
| Hexachlorobutadiene | | U | 155 | 77.5 | |
| 1,2,3-Trichlorobenzene | | U | 155 | 77.5 | |
| 4-Chloro-3-methylphenol | | U | 155 | 77.5 | |
| 2-Methylnaphthalene | 15,800 | D | 155 | 77.5 | |
| 1-Methylnaphthalene | 10,200 | D | 155 | 77.5 | |
| Hexachlorocyclopentadiene | | U | 775 | 388 | |
| 2,4,6-Trichlorophenol | | U | 155 | 77.5 | |
| 2,4,5-Trichlorophenol | | U | 155 | 77.5 | |
| 2-Chloronaphthalene | | U | 155 | 77.5 | |
| 2-Nitroaniline | | U | 155 | 77.5 | |
| Dimethylphthalate | | U | 155 | 77.5 | |
| Acenaphthylene | 3,510 | | 155 | 77.5 | |
| 3-Nitroaniline | | U | 155 | 77.5 | |
| Acenaphthene | 6,280 | | 155 | 77.5 | |
| 2,4-Dinitrophenol | | U | 775 | 388 | |
| 4-Nitrophenol | | U | 775 | 388 | |
| Dibenzofuran | 6,270 | | 155 | 77.5 | |
| 2,3,4,6-Tetrachlorophenol | | U | 155 | 77.5 | |
| Diethylphthalate | | U | 155 | 77.5 | |
| 4-Chlorophenyl-phenylether | | U | 155 | 77.5 | |
| Fluorene | 7,700 | | 155 | 77.5 | |
| C1-Fluorennes | 2,580 | | 155 | 77.5 | |
| C2-Fluorennes | 1,290 | | 155 | 77.5 | |
| C3-Fluorennes | 731 | | 155 | 77.5 | |
| 4-Nitroaniline | | U | 155 | 77.5 | |
| 4,6-Dinitro-2-methylphenol | | U | 775 | 388 | |
| Diphenylamine | | U | 155 | 77.5 | |
| 4-Bromophenyl-phenylether | | U | 155 | 77.5 | |
| Hexachlorobenzene | | U | 155 | 77.5 | |
| Pentachlorophenol | | U | 775 | 388 | |
| Phenanthrene | 13,500 | | 155 | 77.5 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-102AD-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-03 | | |
| File ID: | E010322.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0129 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|------|----------|
| Anthracene | 5,180 | 155 | 77.5 | |
| C1-Phenanthrenes/Anthracenes | 7,520 | 155 | 77.5 | |
| C2-Phenanthrenes/Anthracenes | 3,470 | 155 | 77.5 | |
| C3-Phenanthrenes/Anthracenes | 1,280 | 155 | 77.5 | |
| Retene | | U | 155 | 77.5 |
| C4-Phenanthrenes/Anthracenes | 246 | 155 | 77.5 | |
| Dibenzothiophenes | 1,670 | 155 | 77.5 | |
| C1-Dibenzothiophenes | 922 | 155 | 77.5 | |
| C2-Dibenzothiophenes | 588 | 155 | 77.5 | |
| C3-Dibenzothiophenes | 226 | 155 | 77.5 | |
| C4-Dibenzothiophenes | 101 | J | 155 | 77.5 |
| Carbazole | 2,880 | 155 | 77.5 | |
| Di-n-butylphthalate | | U | 155 | 77.5 |
| Fluoranthene | 9,170 | 155 | 77.5 | |
| Pyrene | 7,660 | 155 | 77.5 | |
| Benzo(b/c)fluorenes | 1,450 | 155 | 77.5 | |
| 2-Methylfluorene | 713 | 155 | 77.5 | |
| 4-Methylfluorene | 583 | 155 | 77.5 | |
| 1-Methylfluorene | 602 | 155 | 77.5 | |
| C1-Fluoranthenes/Pyrenes | 6,300 | 155 | 77.5 | |
| C2-Fluoranthenes/Pyrenes | 2,240 | 155 | 77.5 | |
| C3-Fluoranthenes/Pyrenes | 815 | 155 | 77.5 | |
| Butylbenzylphthalate | | U | 155 | 77.5 |
| Benz[a]anthracene | 3,970 | 155 | 77.5 | |
| Chrysene | 3,690 | 155 | 77.5 | |
| C1-Benz[a]anthracenes/Chrysenes | 1,840 | 155 | 77.5 | |
| C2-Benz[a]anthracenes/Chrysenes | 716 | 155 | 77.5 | |
| C3-Benz[a]anthracenes/Chrysenes | 450 | 155 | 77.5 | |
| C4-Benz[a]anthracenes/Chrysenes | | U | 155 | 77.5 |
| bis(2-Ethylhexyl)phthalate | | U | 155 | 77.5 |
| Di-n-octylphthalate | | U | 155 | 77.5 |
| Benzo[b]fluoranthene | 2,380 | 155 | 77.5 | |
| Benzo[k]fluoranthene | 2,550 | 155 | 77.5 | |
| Benzo[a]pyrene | 3,110 | 155 | 77.5 | |
| Benzo[e]pyrene | 1,940 | 155 | 77.5 | |
| Perylene | 848 | 155 | 77.5 | |
| Indeno[1,2,3-cd]pyrene | 1,700 | 155 | 77.5 | |
| Dibenzo[a,h]anthracene | 546 | 155 | 77.5 | |
| Benzo[g,h,i]perylene | 1,690 | 155 | 77.5 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-102AD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-03 | | |
| File ID: | E010322.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0129 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH051212-MB1 | Injection Volume (μ l): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Toluene-d8 | 83 | 50 - 120 | | Limits |
| 4-Bromofluorobenzene | 88 | 50 - 120 | | |
| Phenol-d5 | 87 | 50 - 120 | | |
| 2-Fluorophenol | 85 | 50 - 120 | | |
| Nitrobenzene-d5 | 105 | 50 - 120 | | |
| 2-Fluorobiphenyl | 100 | 50 - 120 | | |
| 2,4,6-Tribromophenol | 97 | 50 - 120 | | |
| p-Terphenyl-d14 | 100 | 50 - 120 | | |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-112BD-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-04 | | |
| File ID: | E010323.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|-------------------------------|-----------------------|-----|-----|----------|
| SVOC COMPOUNDS: | | | | |
| Benzene | 426 | 200 | 100 | |
| C1-Benzene | 834 | 200 | 100 | |
| C2-Benzenes | 4,400 | 200 | 100 | |
| C3-Benzenes | 3,380 | 200 | 100 | |
| C4-Benzenes | 1,510 | 200 | 100 | |
| C5-Benzenes | 350 | 200 | 100 | |
| Pyridine | U | 200 | 100 | |
| N-nitrosodimethylamine | U | 200 | 100 | |
| Toluene | 1,170 | 200 | 100 | |
| Ethylbenzene | 2,210 | 200 | 100 | |
| m/p-Xylenes | 4,380 | 200 | 100 | |
| Styrene | 343 | 200 | 100 | |
| o-Xylene | 2,160 | 200 | 100 | |
| Isopropylbenzene | 167 | J | 200 | 100 |
| Propylbenzene | 181 | J | 200 | 100 |
| 1,3,5-Trimethylbenzene | 1,150 | 200 | 100 | |
| tert-Butylbenzene | 426 | 200 | 100 | |
| 1,2,4-Trimethylbenzene | 2,820 | 200 | 100 | |
| sec-Butylbenzene | U | 200 | 100 | |
| Phenol | U | 200 | 100 | |
| bis(2-Chloroethyl)ether | U | 200 | 100 | |
| Aniline | U | 200 | 100 | |
| 2-Chlorophenol | U | 200 | 100 | |
| 1,3-Dichlorobenzene | U | 200 | 100 | |
| 1,4-Dichlorobenzene | U | 200 | 100 | |
| p-Isopropyltoluene | 463 | 200 | 100 | |
| Benzyl Alcohol | U | 200 | 100 | |
| 2-Methylphenol (m-cresol) | U | 200 | 100 | |
| 1,2-Dichlorobenzene | U | 200 | 100 | |
| 3,4-Methylphenol (o,p-cresol) | U | 200 | 100 | |
| bis(2-chloroisopropyl)ether | U | 200 | 100 | |
| n-Butylbenzene | 148 | J | 200 | 100 |
| N-nitroso-di-n-propylamine | U | 200 | 100 | |
| Hexachloroethane | U | 200 | 100 | |
| Nitrobenzene | U | 200 | 100 | |
| Isophorone | U | 200 | 100 | |
| 2-Nitrophenol | U | 200 | 100 | |
| 2,4-Dimethylphenol | U | 200 | 100 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-112BD-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-04 | | |
| File ID: | E010323.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | El Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------------|-----------------------|-------|-----|----------|
| bis(2-Chloroethoxy)methane | U | 200 | 100 | |
| 1,2,4-Trichlorobenzene | U | 200 | 100 | |
| Naphthalene | 72,800 | D | 200 | 100 |
| C1-Naphthalenes | 17,900 | | 200 | 100 |
| C2-Naphthalenes | 13,700 | | 200 | 100 |
| C3-Naphthalenes | 5,480 | | 200 | 100 |
| C4-Naphthalenes | 1,530 | | 200 | 100 |
| 2,4-Dichlorophenol | U | 1,000 | 500 | |
| 4-Chloroaniline | U | 200 | 100 | |
| Hexachlorobutadiene | U | 200 | 100 | |
| 1,2,3-Trichlorobenzene | U | 200 | 100 | |
| 4-Chloro-3-methylphenol | U | 200 | 100 | |
| 2-Methylnaphthalene | 14,800 | | 200 | 100 |
| 1-Methylnaphthalene | 10,700 | | 200 | 100 |
| Hexachlorocyclopentadiene | U | 1,000 | 500 | |
| 2,4,6-Trichlorophenol | U | 200 | 100 | |
| 2,4,5-Trichlorophenol | U | 200 | 100 | |
| 2-Chloronaphthalene | U | 200 | 100 | |
| 2-Nitroaniline | U | 200 | 100 | |
| Dimethylphthalate | U | 200 | 100 | |
| Acenaphthylene | 4,760 | | 200 | 100 |
| 3-Nitroaniline | U | 200 | 100 | |
| Acenaphthene | 4,670 | | 200 | 100 |
| 2,4-Dinitrophenol | U | 1,000 | 500 | |
| 4-Nitrophenol | U | 1,000 | 500 | |
| Dibenzofuran | 4,540 | | 200 | 100 |
| 2,3,4,6-Tetrachlorophenol | U | 200 | 100 | |
| Diethylphthalate | U | 200 | 100 | |
| 4-Chlorophenyl-phenylether | U | 200 | 100 | |
| Fluorene | 6,660 | | 200 | 100 |
| C1-Fluorennes | 3,750 | | 200 | 100 |
| C2-Fluorennes | 2,220 | | 200 | 100 |
| C3-Fluorennes | 975 | | 200 | 100 |
| 4-Nitroaniline | U | 200 | 100 | |
| 4,6-Dinitro-2-methylphenol | U | 1,000 | 500 | |
| Diphenylamine | U | 200 | 100 | |
| 4-Bromophenyl-phenylether | U | 200 | 100 | |
| Hexachlorobenzene | U | 200 | 100 | |
| Pentachlorophenol | U | 1,000 | 500 | |
| Phenanthrene | 12,400 | | 200 | 100 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-112BD-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-04 | | |
| File ID: | E010323.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|-----|----------|
| Anthracene | 4,690 | 200 | 100 | |
| C1-Phenanthrenes/Anthracenes | 11,100 | 200 | 100 | |
| C2-Phenanthrenes/Anthracenes | 5,700 | 200 | 100 | |
| C3-Phenanthrenes/Anthracenes | 1,900 | 200 | 100 | |
| Retene | | U | 200 | 100 |
| C4-Phenanthrenes/Anthracenes | 310 | 200 | 100 | |
| Dibenzothiophenes | 1,770 | 200 | 100 | |
| C1-Dibenzothiophenes | 1,760 | 200 | 100 | |
| C2-Dibenzothiophenes | 1,300 | 200 | 100 | |
| C3-Dibenzothiophenes | 494 | 200 | 100 | |
| C4-Dibenzothiophenes | | U | 200 | 100 |
| Carbazole | 1,390 | 200 | 100 | |
| Di-n-butylphthalate | | U | 200 | 100 |
| Fluoranthene | 7,090 | 200 | 100 | |
| Pyrene | 6,720 | 200 | 100 | |
| Benzo(b/c)fluorenes | 1,530 | 200 | 100 | |
| 2-Methylfluorene | 965 | 200 | 100 | |
| 4-Methylfluorene | 872 | 200 | 100 | |
| 1-Methylfluorene | 970 | 200 | 100 | |
| C1-Fluoranthenes/Pyrenes | 8,140 | 200 | 100 | |
| C2-Fluoranthenes/Pyrenes | 3,090 | 200 | 100 | |
| C3-Fluoranthenes/Pyrenes | 1,090 | 200 | 100 | |
| Butylbenzylphthalate | | U | 200 | 100 |
| Benz[a]anthracene | 3,580 | 200 | 100 | |
| Chrysene | 3,290 | 200 | 100 | |
| C1-Benz[a]anthracenes/Chrysenes | 2,530 | 200 | 100 | |
| C2-Benz[a]anthracenes/Chrysenes | 1,130 | 200 | 100 | |
| C3-Benz[a]anthracenes/Chrysenes | 456 | 200 | 100 | |
| C4-Benz[a]anthracenes/Chrysenes | | U | 200 | 100 |
| bis(2-Ethylhexyl)phthalate | | U | 200 | 100 |
| Di-n-octylphthalate | | U | 200 | 100 |
| Benzo[b]fluoranthene | 1,690 | 200 | 100 | |
| Benzo[k]fluoranthene | 1,750 | 200 | 100 | |
| Benzo[a]pyrene | 2,370 | 200 | 100 | |
| Benzo[e]pyrene | 1,460 | 200 | 100 | |
| Perylene | 520 | 200 | 100 | |
| Indeno[1,2,3-cd]pyrene | 1,110 | 200 | 100 | |
| Dibenz[a,h]anthracene | 385 | 200 | 100 | |
| Benzo[g,h,i]perylene | 969 | 200 | 100 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-112BD-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-04 | | |
| File ID: | E010323.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH051212-MB1 | Injection Volume (µl): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Toluene-d8 | 79 | 50 - 120 | | Limits |
| 4-Bromofluorobenzene | 91 | 50 - 120 | | |
| Phenol-d5 | 89 | 50 - 120 | | |
| 2-Fluorophenol | 90 | 50 - 120 | | |
| Nitrobenzene-d5 | 110 | 50 - 120 | | |
| 2-Fluorobiphenyl | 99 | 50 - 120 | | |
| 2,4,6-Tribromophenol | 103 | 50 - 120 | | |
| p-Terphenyl-d14 | 99 | 50 - 120 | | |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-107D-120605**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051208-01 | | |
| File ID: | E010324.D | Matrix: | NAPL |
| Date Sampled: | 12/6/2005 | Preservation: | None |
| Date Received: | 12/8/2005 | Decanted: | None |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (µl): | 2000 |
| Instrument: | El Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|-------------------------------|-----------------------|-----|------|----------|
| SVOC COMPOUNDS: | | | | |
| Benzene | 1,410 | 174 | 87.0 | |
| C1-Benzene | 3,640 | 174 | 87.0 | |
| C2-Benzene | 6,310 | 174 | 87.0 | |
| C3-Benzene | 5,740 | 174 | 87.0 | |
| C4-Benzene | 2,960 | 174 | 87.0 | |
| C5-Benzene | 809 | 174 | 87.0 | |
| Pyridine | U | 174 | 87.0 | |
| N-nitrosodimethylamine | U | 174 | 87.0 | |
| Toluene | 4,980 | 174 | 87.0 | |
| Ethylbenzene | 2,480 | 174 | 87.0 | |
| m/p-Xylenes | 6,810 | 174 | 87.0 | |
| Styrene | 561 | 174 | 87.0 | |
| o-Xylene | 3,070 | 174 | 87.0 | |
| Isopropylbenzene | 458 | 174 | 87.0 | |
| Propylbenzene | 302 | 174 | 87.0 | |
| 1,3,5-Trimethylbenzene | 1,900 | 174 | 87.0 | |
| tert-Butylbenzene | 602 | 174 | 87.0 | |
| 1,2,4-Trimethylbenzene | 4,260 | 174 | 87.0 | |
| sec-Butylbenzene | U | 174 | 87.0 | |
| Phenol | U | 174 | 87.0 | |
| bis(2-Chloroethyl)ether | U | 174 | 87.0 | |
| Aniline | U | 174 | 87.0 | |
| 2-Chlorophenol | U | 174 | 87.0 | |
| 1,3-Dichlorobenzene | U | 174 | 87.0 | |
| 1,4-Dichlorobenzene | U | 174 | 87.0 | |
| p-Isopropyltoluene | 585 | 174 | 87.0 | |
| Benzyl Alcohol | U | 174 | 87.0 | |
| 2-Methylphenol (m-cresol) | U | 174 | 87.0 | |
| 1,2-Dichlorobenzene | U | 174 | 87.0 | |
| 3,4-Methylphenol (o,p-cresol) | U | 174 | 87.0 | |
| bis(2-chloroisopropyl)ether | U | 174 | 87.0 | |
| n-Butylbenzene | 345 | 174 | 87.0 | |
| N-nitroso-di-n-propylamine | U | 174 | 87.0 | |
| Hexachloroethane | U | 174 | 87.0 | |
| Nitrobenzene | U | 174 | 87.0 | |
| Isophorone | U | 174 | 87.0 | |
| 2-Nitrophenol | U | 174 | 87.0 | |
| 2,4-Dimethylphenol | U | 174 | 87.0 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-107D-120605**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051208-01 | | |
| File ID: | E010324.D | Matrix: | NAPL |
| Date Sampled: | 12/6/2005 | Preservation: | None |
| Date Received: | 12/8/2005 | Decanted: | None |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------------|-----------------------|----|-----|----------|
| bis(2-Chloroethoxy)methane | | U | 174 | 87.0 |
| 1,2,4-Trichlorobenzene | | U | 174 | 87.0 |
| Naphthalene | 128,000 | D | 174 | 87.0 |
| C1-Naphthalenes | 60,500 | D | 174 | 87.0 |
| C2-Naphthalenes | 25,200 | | 174 | 87.0 |
| C3-Naphthalenes | 10,700 | | 174 | 87.0 |
| C4-Naphthalenes | 3,300 | | 174 | 87.0 |
| 2,4-Dichlorophenol | | U | 870 | 435 |
| 4-Chloroaniline | | U | 174 | 87.0 |
| Hexachlorobutadiene | | U | 174 | 87.0 |
| 1,2,3-Trichlorobenzene | | U | 174 | 87.0 |
| 4-Chloro-3-methylphenol | | U | 174 | 87.0 |
| 2-Methylnaphthalene | 53,500 | D | 174 | 87.0 |
| 1-Methylnaphthalene | 32,200 | D | 174 | 87.0 |
| Hexachlorocyclopentadiene | | U | 870 | 435 |
| 2,4,6-Trichlorophenol | | U | 174 | 87.0 |
| 2,4,5-Trichlorophenol | | U | 174 | 87.0 |
| 2-Chloronaphthalene | | U | 174 | 87.0 |
| 2-Nitroaniline | | U | 174 | 87.0 |
| Dimethylphthalate | | U | 174 | 87.0 |
| Acenaphthylene | 1,650 | | 174 | 87.0 |
| 3-Nitroaniline | | U | 174 | 87.0 |
| Acenaphthene | 13,800 | | 174 | 87.0 |
| 2,4-Dinitrophenol | | U | 870 | 435 |
| 4-Nitrophenol | | U | 870 | 435 |
| Dibenzofuran | 11,400 | | 174 | 87.0 |
| 2,3,4,6-Tetrachlorophenol | | U | 174 | 87.0 |
| Diethylphthalate | | U | 174 | 87.0 |
| 4-Chlorophenyl-phenylether | | U | 174 | 87.0 |
| Fluorene | 13,200 | | 174 | 87.0 |
| C1-Fluorennes | 4,680 | | 174 | 87.0 |
| C2-Fluorennes | 2,040 | | 174 | 87.0 |
| C3-Fluorennes | 1,080 | | 174 | 87.0 |
| 4-Nitroaniline | | U | 174 | 87.0 |
| 4,6-Dinitro-2-methylphenol | | U | 870 | 435 |
| Diphenylamine | | U | 174 | 87.0 |
| 4-Bromophenyl-phenylether | | U | 174 | 87.0 |
| Hexachlorobenzene | | U | 174 | 87.0 |
| Pentachlorophenol | | U | 870 | 435 |
| Phenanthrene | 48,900 | D | 174 | 87.0 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-107D-120605**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051208-01 | | |
| File ID: | E010324.D | Matrix: | NAPL |
| Date Sampled: | 12/6/2005 | Preservation: | None |
| Date Received: | 12/8/2005 | Decanted: | None |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH051212-MB1 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|------|----------|
| Anthracene | 7,050 | 174 | 87.0 | |
| C1-Phenanthrenes/Anthracenes | 11,900 | 174 | 87.0 | |
| C2-Phenanthrenes/Anthracenes | 4,750 | 174 | 87.0 | |
| C3-Phenanthrenes/Anthracenes | 1,360 | 174 | 87.0 | |
| Retene | | U | 174 | 87.0 |
| C4-Phenanthrenes/Anthracenes | 254 | 174 | 87.0 | |
| Dibenzothiophenes | 2,960 | 174 | 87.0 | |
| C1-Dibenzothiophenes | 1,650 | 174 | 87.0 | |
| C2-Dibenzothiophenes | 799 | 174 | 87.0 | |
| C3-Dibenzothiophenes | 274 | 174 | 87.0 | |
| C4-Dibenzothiophenes | | U | 174 | 87.0 |
| Carbazole | 2,180 | 174 | 87.0 | |
| Di-n-butylphthalate | | U | 174 | 87.0 |
| Fluoranthene | 10,000 | 174 | 87.0 | |
| Pyrene | 7,470 | 174 | 87.0 | |
| Benzo(b/c)fluorenes | 1,080 | 174 | 87.0 | |
| 2-Methylfluorene | 561 | 174 | 87.0 | |
| 4-Methylfluorene | 390 | 174 | 87.0 | |
| 1-Methylfluorene | 397 | 174 | 87.0 | |
| C1-Fluoranthenes/Pyrenes | 5,050 | 174 | 87.0 | |
| C2-Fluoranthenes/Pyrenes | 1,370 | 174 | 87.0 | |
| C3-Fluoranthenes/Pyrenes | 494 | 174 | 87.0 | |
| Butylbenzylphthalate | | U | 174 | 87.0 |
| Benz[a]anthracene | 2,400 | 174 | 87.0 | |
| Chrysene | 2,280 | 174 | 87.0 | |
| C1-Benz[a]anthracenes/Chrysenes | 874 | 174 | 87.0 | |
| C2-Benz[a]anthracenes/Chrysenes | 347 | 174 | 87.0 | |
| C3-Benz[a]anthracenes/Chrysenes | | U | 174 | 87.0 |
| C4-Benz[a]anthracenes/Chrysenes | | U | 174 | 87.0 |
| bis(2-Ethylhexyl)phthalate | | U | 174 | 87.0 |
| Di-n-octylphthalate | | U | 174 | 87.0 |
| Benzo[b]fluoranthene | 978 | 174 | 87.0 | |
| Benzo[k]fluoranthene | 1,370 | 174 | 87.0 | |
| Benzo[a]pyrene | 1,280 | 174 | 87.0 | |
| Benzo[e]pyrene | 690 | 174 | 87.0 | |
| Perylene | 250 | 174 | 87.0 | |
| Indeno[1,2,3-cd]pyrene | 524 | 174 | 87.0 | |
| Dibenz[a,h]anthracene | 164 | J | 174 | 87.0 |
| Benzo[g,h,i]perylene | 466 | | 174 | 87.0 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-107D-120605**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051208-01 | | |
| File ID: | E010324.D | Matrix: | NAPL |
| Date Sampled: | 12/6/2005 | Preservation: | None |
| Date Received: | 12/8/2005 | Decanted: | None |
| Date Prepared: | 12/12/2005 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 1/4/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH051212-MB1 | Injection Volume (μ l): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Toluene-d8 | 81 | 50 - 120 | | Limits |
| 4-Bromofluorobenzene | 86 | 50 - 120 | | |
| Phenol-d5 | 81 | 50 - 120 | | |
| 2-Fluorophenol | 86 | 50 - 120 | | |
| Nitrobenzene-d5 | 113 | 50 - 120 | | |
| 2-Fluorobiphenyl | 96 | 50 - 120 | | |
| 2,4,6-Tribromophenol | 94 | 50 - 120 | | |
| p-Terphenyl-d14 | 92 | 50 - 120 | | |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Appendix D

Volatile Compound/Trace Metals

Concentrations

Technical Report for

META Environmental, Inc.

Quantra NAPL-NJ

Accutest Job Number: M53071

Sampling Date: 11/23/05

Report to:

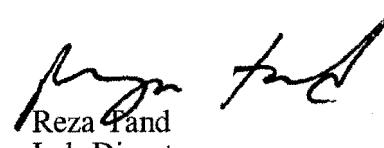
META Environmental, Inc.
49 Clarendon St.
Watertown, MA 02472

ATTN: Raymond Siegener

Total number of pages in report: 16



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Conference
and/or state specific certification programs as applicable.



Reza Tand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
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Sample Summary

META Environmental, Inc.

Job No: M53071

Quantra NAPL-NJ

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|----------|----------|-------------|------|------------------|
| M53071-1 | 11/23/05 | 00:00 DZ | 12/06/05 | SO | Oil | CH051203-01 |
| M53071-2 | 11/23/05 | 00:00 DZ | 12/06/05 | SO | Oil | CH051203-02 |
| M53071-3 | 11/23/05 | 00:00 DZ | 12/06/05 | SO | Oil | CH051203-03 |
| M53071-4 | 11/23/05 | 00:00 DZ | 12/06/05 | SO | Oil | CH051203-04 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

| | | | |
|--------------------------|-----------------|------------------------|----------|
| Client Sample ID: | CH051203-01 | Date Sampled: | 11/23/05 |
| Lab Sample ID: | M53071-1 | Date Received: | 12/06/05 |
| Matrix: | SO - Oil | Percent Solids: | n/a |
| Method: | SW846 8260B | | |
| Project: | Quantra NAPL-NJ | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------------|-----------|-----------------|-----------|------------------|-------------------|-------------------------|
| Run #1 | H30110.D | 1 | 12/07/05 | SC | n/a | n/a | MSH1022 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|-----------------------|---------------------|-------------------------|
| Run #1 | 1.02 g | 10.0 ml | 0.25 ul |
| Run #2 | | | |

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|----------------|-----------------------------|---------------|-----------|--------------|----------|
| 67-64-1 | Acetone | ND | 980000 | ug/kg | |
| 71-43-2 | Benzene | ND | 98000 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 980000 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 980000 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 390000 | ug/kg | |
| 75-25-2 | Bromoform | ND | 390000 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 390000 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 980000 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 980000 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 980000 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 980000 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 980000 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 390000 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 390000 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 980000 | ug/kg | |
| 67-66-3 | Chloroform | ND | 390000 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 980000 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 980000 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 980000 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 980000 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 390000 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 390000 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 390000 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 390000 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 390000 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 390000 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 390000 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 390000 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 390000 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 390000 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 390000 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 390000 | ug/kg | |

ND = Not detected

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|-----------------|------------------------|----------|
| Client Sample ID: | CH051203-01 | Date Sampled: | 11/23/05 |
| Lab Sample ID: | M53071-1 | Date Received: | 12/06/05 |
| Matrix: | SO - Oil | Percent Solids: | n/a |
| Method: | SW846 8260B | | |
| Project: | Quantra NAPL-NJ | | |

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|------------|-----------------------------|----------|--------|-------|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 980000 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 980000 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 980000 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 390000 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 390000 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 390000 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 980000 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 980000 | ug/kg | |
| 74-88-4 | Iodomethane | ND | 980000 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 980000 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 980000 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 980000 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 980000 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 390000 | ug/kg | |
| 91-20-3 | Naphthalene | 30500000 | 980000 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 980000 | ug/kg | |
| 100-42-5 | Styrene | ND | 980000 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 980000 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 390000 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 390000 | ug/kg | |
| 108-88-3 | Toluene | ND | 390000 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 980000 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 980000 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 390000 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 390000 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 390000 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 390000 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 980000 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1500000 | 980000 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 980000 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 980000 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 390000 | ug/kg | |
| 1330-20-7 | Xylene (total) | 511000 | 390000 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 59-139% |
| 2037-26-5 | Toluene-D8 | 97% | | 68-123% |
| 460-00-4 | 4-Bromofluorobenzene | 105% | | 62-132% |

ND = Not detected

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|-----------------|------------------------|----------|
| Client Sample ID: | CH051203-01 | Date Sampled: | 11/23/05 |
| Lab Sample ID: | M53071-1 | Date Received: | 12/06/05 |
| Matrix: | SO - Oil | Percent Solids: | n/a |
| Project: | Quantra NAPL-NJ | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|
| Antimony | <0.54 | 0.54 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Arsenic | 1.7 | 0.45 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Beryllium | <0.36 | 0.36 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Cadmium | <0.36 | 0.36 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Chromium | 2.1 | 0.90 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Copper | <2.3 | 2.3 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Lead | 1.5 | 0.45 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Mercury | <0.024 | 0.024 | mg/kg | 1 | 12/06/05 | 12/07/05 | LMN | SW846 7471A ¹ |
| Nickel | <3.6 | 3.6 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Selenium | <0.90 | 0.90 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Silver | <0.45 | 0.45 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Thallium | <0.90 | 0.90 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Zinc | <1.8 | 1.8 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |

- (1) Instrument QC Batch: MA6525
(2) Instrument QC Batch: MA6529
(3) Prep QC Batch: MP8009
(4) Prep QC Batch: MP8010

RL = Reporting Limit

Report of Analysis

| | | | |
|--------------------------|-----------------|------------------------|----------|
| Client Sample ID: | CH051203-02 | Date Sampled: | 11/23/05 |
| Lab Sample ID: | M53071-2 | Date Received: | 12/06/05 |
| Matrix: | SO - Oil | Percent Solids: | n/a |
| Method: | SW846 8260B | | |
| Project: | Quantra NAPL-NJ | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------|----|-----------|------------|------------------|
| Run #2 | H30111.D | 1 | 12/07/05 | SC | n/a | n/a | MSH1022 |

| Run #1 | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 1.07 g | 10.0 ml | 0.25 ul |
| Run #2 | | | |

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|----------|-----------------------------|--------|--------|-------|---|
| 67-64-1 | Acetone | ND | 940000 | ug/kg | |
| 71-43-2 | Benzene | ND | 94000 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 940000 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 940000 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 370000 | ug/kg | |
| 75-25-2 | Bromoform | ND | 370000 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 370000 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 940000 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 940000 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 940000 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 940000 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 940000 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 370000 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 370000 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 940000 | ug/kg | |
| 67-66-3 | Chloroform | ND | 370000 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 940000 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 940000 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 940000 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 940000 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 370000 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 370000 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 370000 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 370000 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 370000 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 370000 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 370000 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 370000 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 370000 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 370000 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 370000 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 370000 | ug/kg | |

ND = Not detected

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CH051203-02
Lab Sample ID: M53071-2
Matrix: SO - Oil
Method: SW846 8260B
Project: Quantra NAPL-NJ

Date Sampled: 11/23/05
Date Received: 12/06/05
Percent Solids: n/a

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|------------|-----------------------------|----------|--------|-------|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 940000 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 940000 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 940000 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 370000 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 370000 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 370000 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 940000 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 940000 | ug/kg | |
| 74-88-4 | Iodomethane | ND | 940000 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 940000 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 940000 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 940000 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 940000 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 370000 | ug/kg | |
| 91-20-3 | Naphthalene | 25300000 | 940000 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 940000 | ug/kg | |
| 100-42-5 | Styrene | ND | 940000 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 940000 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 370000 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 370000 | ug/kg | |
| 108-88-3 | Toluene | ND | 370000 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 940000 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 940000 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 370000 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 370000 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 370000 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 370000 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 940000 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 940000 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 940000 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 940000 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 370000 | ug/kg | |
| 1330-20-7 | Xylene (total) | 673000 | 370000 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 109% | | 59-139% |
| 2037-26-5 | Toluene-D8 | 98% | | 68-123% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 62-132% |

ND = Not detected

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis**Client Sample ID:** CH051203-02**Lab Sample ID:** M53071-2**Matrix:** SO - Oil**Date Sampled:** 11/23/05**Date Received:** 12/06/05**Percent Solids:** n/a**Project:** Quantra NAPL-NJ**Metals Analysis**

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|
| Antimony | <0.50 | 0.50 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Arsenic | 4.1 | 0.41 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Beryllium | <0.33 | 0.33 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Cadmium | <0.33 | 0.33 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Chromium | <0.83 | 0.83 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Copper | <2.1 | 2.1 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Lead | 2.0 | 0.41 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Mercury | <0.029 | 0.029 | mg/kg | 1 | 12/06/05 | 12/07/05 | LMN | SW846 7471A ¹ |
| Nickel | <3.3 | 3.3 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Selenium | 1.1 | 0.83 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Silver | <0.41 | 0.41 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Thallium | <0.83 | 0.83 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Zinc | 1.9 | 1.7 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |

(1) Instrument QC Batch: MA6525

(2) Instrument QC Batch: MA6529

(3) Prep QC Batch: MP8009

(4) Prep QC Batch: MP8010

RL = Reporting Limit

Report of Analysis

| | | | |
|--------------------------|-----------------|------------------------|----------|
| Client Sample ID: | CH051203-03 | Date Sampled: | 11/23/05 |
| Lab Sample ID: | M53071-3 | Date Received: | 12/06/05 |
| Matrix: | SO - Oil | Percent Solids: | n/a |
| Method: | SW846 8260B | | |
| Project: | Quantra NAPL-NJ | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------------|-----------|-----------------|-----------|------------------|-------------------|-------------------------|
| Run #1 | H30108.D | 1 | 12/07/05 | SC | n/a | n/a | MSH1022 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|-----------------------|---------------------|-------------------------|
| Run #1 | 1.25 g | 10.0 ml | 0.050 ul |
| Run #2 | | | |

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|----------|-----------------------------|---------|---------|-------|---|
| 67-64-1 | Acetone | ND | 4000000 | ug/kg | |
| 71-43-2 | Benzene | 1960000 | 400000 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 4000000 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4000000 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1600000 | ug/kg | |
| 75-25-2 | Bromoform | ND | 1600000 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 1600000 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 4000000 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 4000000 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 4000000 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 4000000 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 4000000 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1600000 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1600000 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4000000 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1600000 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4000000 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 4000000 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 4000000 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4000000 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1600000 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1600000 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1600000 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1600000 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1600000 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 1600000 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1600000 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1600000 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1600000 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1600000 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1600000 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1600000 | ug/kg | |

ND = Not detected

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CH051203-03
Lab Sample ID: M53071-3
Matrix: SO - Oil
Method: SW846 8260B
Project: Quantra NAPL-NJ

Date Sampled: 11/23/05
Date Received: 12/06/05
Percent Solids: n/a

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|------------|-----------------------------|----------|----|---------------|---|
| 142-28-9 | 1,3-Dichloropropane | ND | | 4000000 ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 4000000 ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 4000000 ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 1600000 ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 1600000 ug/kg | |
| 100-41-4 | Ethylbenzene | ND | | 1600000 ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | | 4000000 ug/kg | |
| 591-78-6 | 2-Hexanone | ND | | 4000000 ug/kg | |
| 74-88-4 | Iodomethane | ND | | 4000000 ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | | 4000000 ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | | 4000000 ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | | 4000000 ug/kg | |
| 74-95-3 | Methylene bromide | ND | | 4000000 ug/kg | |
| 75-09-2 | Methylene chloride | ND | | 1600000 ug/kg | |
| 91-20-3 | Naphthalene | 52400000 | | 4000000 ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | | 4000000 ug/kg | |
| 100-42-5 | Styrene | ND | | 4000000 ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 4000000 ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 1600000 ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | | 1600000 ug/kg | |
| 108-88-3 | Toluene | 2740000 | | 1600000 ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 4000000 ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 4000000 ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1600000 ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 1600000 ug/kg | |
| 79-01-6 | Trichloroethene | ND | | 1600000 ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1600000 ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 4000000 ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 4000000 ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 4000000 ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | | 4000000 ug/kg | |
| 75-01-4 | Vinyl chloride | ND | | 1600000 ug/kg | |
| 1330-20-7 | Xylene (total) | 4120000 | | 1600000 ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 105% | | 59-139% |
| 2037-26-5 | Toluene-D8 | 94% | | 68-123% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 62-132% |

ND = Not detected

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|-----------------|------------------------|----------|
| Client Sample ID: | CH051203-03 | Date Sampled: | 11/23/05 |
| Lab Sample ID: | M53071-3 | Date Received: | 12/06/05 |
| Matrix: | SO - Oil | Percent Solids: | n/a |
| Project: | Quantra NAPL-NJ | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|
| Antimony | <0.47 | 0.47 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Arsenic | 2.5 | 0.39 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Beryllium | <0.31 | 0.31 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Cadmium | <0.31 | 0.31 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Chromium | 1.5 | 0.78 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Copper | <2.0 | 2.0 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Lead | 0.52 | 0.39 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Mercury | <0.027 | 0.027 | mg/kg | 1 | 12/06/05 | 12/07/05 | LMN | SW846 7471A ¹ |
| Nickel | <3.1 | 3.1 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Selenium | 0.83 | 0.78 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Silver | <0.39 | 0.39 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Thallium | <0.78 | 0.78 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |
| Zinc | <1.6 | 1.6 | mg/kg | 1 | 12/06/05 | 12/07/05 | AC | SW846 6010B ² |

- (1) Instrument QC Batch: MA6525
(2) Instrument QC Batch: MA6529
(3) Prep QC Batch: MP8009
(4) Prep QC Batch: MP8010

RL = Reporting Limit

Report of Analysis

Client Sample ID: CH051203-04
Lab Sample ID: M53071-4
Matrix: SO - Oil
Method: SW846 8260B
Project: Quantra NAPL-NJ

Date Sampled: 11/23/05
Date Received: 12/06/05
Percent Solids: n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------|----|-----------|------------|------------------|
| Run #1 | H30109.D | 1 | 12/07/05 | SC | n/a | n/a | MSH1022 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 1.02 g | 10.0 ml | 0.050 ul |
| Run #2 | | | |

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|----------|-----------------------------|---------|---------|-------|---|
| 67-64-1 | Acetone | ND | 4900000 | ug/kg | |
| 71-43-2 | Benzene | 1540000 | 490000 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 4900000 | ug/kg | |
| 74-97-5 | Bromoform | ND | 4900000 | ug/kg | |
| 75-27-4 | Bromochloromethane | ND | 2000000 | ug/kg | |
| 75-25-2 | Bromodichloromethane | ND | 2000000 | ug/kg | |
| 75-25-2 | Bromoform | ND | 2000000 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 2000000 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 4900000 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 4900000 | ug/kg | |
| 135-98-8 | o-Butylbenzene | ND | 4900000 | ug/kg | |
| 98-06-6 | sec-Butylbenzene | ND | 4900000 | ug/kg | |
| 75-15-0 | tert-Butylbenzene | ND | 4900000 | ug/kg | |
| 56-23-5 | Carbon disulfide | ND | 4900000 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2000000 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2000000 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4900000 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2000000 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4900000 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 4900000 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 4900000 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4900000 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2000000 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2000000 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2000000 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2000000 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2000000 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2000000 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2000000 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 2000000 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 2000000 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2000000 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2000000 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2000000 | ug/kg | |

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CH051203-04
Lab Sample ID: M53071-4
Matrix: SO - Oil
Method: SW846 8260B
Project: Quantra NAPL-NJ

Date Sampled: 11/23/05
Date Received: 12/06/05
Percent Solids: n/a

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|------------|-----------------------------|-----------|---------|-------|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 4900000 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 4900000 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 4900000 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2000000 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2000000 | ug/kg | |
| 100-41-4 | Ethylbenzene | 3790000 | 2000000 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 4900000 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4900000 | ug/kg | |
| 74-88-4 | Iodomethane | ND | 4900000 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 4900000 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 4900000 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 4900000 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 4900000 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 2000000 | ug/kg | |
| 91-20-3 | Naphthalene | 103000000 | 4900000 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 4900000 | ug/kg | |
| 100-42-5 | Styrene | ND | 4900000 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 4900000 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2000000 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2000000 | ug/kg | |
| 108-88-3 | Toluene | 2380000 | 2000000 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4900000 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4900000 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2000000 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2000000 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 2000000 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 2000000 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 4900000 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 4900000 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 4900000 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 4900000 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2000000 | ug/kg | |
| 1330-20-7 | Xylene (total) | 10500000 | 2000000 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|----------|
| 1868-53-7 | Dibromofluoromethane | 105% | | 59-139 % |
| 2037-26-5 | Toluene-D8 | 98% | | 68-123 % |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 62-132 % |

ND = Not detected

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|-----------------|------------------------|----------|
| Client Sample ID: | CH051203-04 | Date Sampled: | 11/23/05 |
| Lab Sample ID: | M53071-4 | Date Received: | 12/06/05 |
| Matrix: | SO - Oil | Percent Solids: | n/a |
| Project: | Quantra NAPL-NJ | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------------------|--------|-------|-------|----|----------|--------------|--------------------------|--------------------------|
| Antimony | 1.3 | 0.51 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Arsenic | 376 | 0.42 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Beryllium | <0.34 | 0.34 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Cadmium | <0.34 | 0.34 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Chromium | <0.85 | 0.85 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Copper | 1010 | 2.1 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Lead | 13.0 | 0.42 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Mercury | 0.67 | 0.031 | mg/kg | 1 | 12/06/05 | 12/07/05 LMN | SW846 7471A ¹ | SW846 7471A ³ |
| Nickel | <3.4 | 3.4 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Selenium | 18.3 | 0.85 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Silver | 2.5 | 0.42 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Thallium ^a | <1.7 | 1.7 | mg/kg | 2 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |
| Zinc | 8.2 | 1.7 | mg/kg | 1 | 12/06/05 | 12/07/05 AC | SW846 6010B ² | SW846 3050B ⁴ |

- (1) Instrument QC Batch: MA6525
(2) Instrument QC Batch: MA6529
(3) Prep QC Batch: MP8009
(4) Prep QC Batch: MP8010

(a) Elevated RL due to dilution required for matrix interference.

RL = Reporting Limit

CHAIN OF CUSTODY RECORD

PROJECT NAME Quanta
COMPANY META Env. Inc.
ADDRESS 49 Clarendon Street. Watertown, MA 02472
PHONE 617-923-4612 X120 FAX 617-923-4610
EMAIL R.SIEGENER@METAENV.COM

M53071

META

Environmental, Inc.



ENGINEERING & CHEMISTRY

49 Clarendon Street
Watertown, MA 02472
TEL: (617) 923-4662
FAX: (617) 923-4610
WWW.METAENV.COM

SAMPLED BY

(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

(Signature)

| SAMPLE NO. | DATE | TIME | SAMPLER'S INITIALS | SAMPLE ID (SAMPLE LOCATION) | CONTAINER <small>SIZE</small> | G/P | GRAB | COMP | NO. OF CONTAINERS | SAMPLE MATRIX | PRESERVATIVE | ANALYSES | | COMMENTS |
|------------|----------|------|--------------------|--------------------------------|----------------------------------|-----|------|------|-------------------|---------------|--------------|----------|-----|----------|
| | | | | | | | | | | | | X P | VOC | |
| 1 | 12/05/05 | | | CH 0512 03-01 | 20ml | | | | | NAPC | NONB | X | X | |
| 2 | 1 | | | -02 | | | | | | | | X | X | |
| 3 | 1 | | | -03 | | | | | | | | X | X | |
| 4 | 1 | * | | -04 | | | | | | | | X | X | |
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| | | | | | |
|--|-------------------------------|--|-----------|---|-----------|
| Relinquished by <u>Dinsey Ferham</u> Received by <u>UPS</u> | Date/Time 12/05/05 1:30 pm | Relinquished by <u>UPS</u> Received by <u>Ray M. Shelly</u> 12/05/05 1040 | Date/Time | Relinquished by <u></u> Received for Laboratory by <u></u> | Date/Time |
|--|-------------------------------|--|-----------|---|-----------|

| | | |
|---------------------|---|-------------------------|
| Method of Shipment: | Remarks: <u>Holding time expires on Wed. 12/07/05.</u> <u>Please extract as soon as possible.</u> <u>Please contact Ray Siegener with any questions.</u> | Temp. 27 °C Loc. 12A |
|---------------------|---|-------------------------|

Technical Report for

META Environmental, Inc.

Quantra NAPL-NJ

Accutest Job Number: M53154

Sampling Date: 12/08/05

Report to:

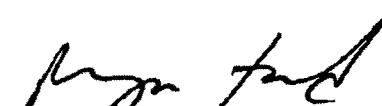
META Environmental, Inc.
49 Clarendon St.
Watertown, MA 02472

ATTN: Raymond Siegener

Total number of pages in report: 7



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Conference
and/or state specific certification programs as applicable.


Reza Pand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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Sample Summary

META Environmental, Inc.

Job No: M53154

Quantra NAPL-NJ

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|----------|----------|-------------|------|------------------|
| M53154-1 | 12/08/05 | 00:00 RL | 12/09/05 | SO | Oil | CH051208-01 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID: CH051208-01
Lab Sample ID: M53154-1
Matrix: SO - Oil
Method: SW846 8260B
Project: Quantra NAPL-NJ

Date Sampled: 12/08/05
Date Received: 12/09/05
Percent Solids: n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------|----|-----------|------------|------------------|
| Run #1 | H30292.D | 1 | 12/14/05 | SC | n/a | n/a | MSH1027 |
| Run #2 | H30353.D | 1 | 12/16/05 | SC | n/a | n/a | MSH1028 |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 0.991 g | 10.0 ml | 2.5 ul |
| Run #2 | 0.991 g | 10.0 ml | 0.025 ul |

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|----------|-----------------------------|---------|--------|-------|---|
| 67-64-1 | Acetone | ND | 100000 | ug/kg | |
| 71-43-2 | Benzene | 3250000 | 10000 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 100000 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 100000 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 40000 | ug/kg | |
| 75-25-2 | Bromoform | ND | 40000 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 40000 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 100000 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 100000 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 100000 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 100000 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 100000 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 40000 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 40000 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 100000 | ug/kg | |
| 67-66-3 | Chloroform | ND | 40000 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 100000 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 100000 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 100000 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 100000 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 40000 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 40000 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 40000 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 40000 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 40000 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 40000 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 40000 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 40000 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 40000 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 40000 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 40000 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 40000 | ug/kg | |

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CH051208-01
Lab Sample ID: M53154-1
Matrix: SO - Oil
Method: SW846 8260B
Project: Quantra NAPL-NJ

Date Sampled: 12/08/05
Date Received: 12/09/05
Percent Solids: n/a

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|------------|-----------------------------|-----------|-------------|-------|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 100000 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 100000 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 100000 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 40000 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 40000 | ug/kg | |
| 100-41-4 | Ethylbenzene | 2760000 | 40000 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 100000 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 100000 | ug/kg | |
| 74-88-4 | Iodomethane | ND | 100000 | ug/kg | |
| 98-82-8 | Isopropylbenzene | 401000 | 100000 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | 394000 | 100000 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 100000 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 100000 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 40000 | ug/kg | |
| 91-20-3 | Naphthalene | 116000000 | ^a100000000 | ug/kg | |
| 103-65-1 | n-Propylbenzene | 257000 | 100000 | ug/kg | |
| 100-42-5 | Styrene | 453000 | 100000 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 100000 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 40000 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 40000 | ug/kg | |
| 108-88-3 | Toluene | 7050000 | 40000 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 100000 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 100000 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 40000 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 40000 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 40000 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 40000 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 100000 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 4370000 | 100000 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1730000 | 100000 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 100000 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 40000 | ug/kg | |
| 1330-20-7 | Xylene (total) | 11200000 | 40000 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|----------|
| 1868-53-7 | Dibromofluoromethane | 103% | 104% | 59-139 % |
| 2037-26-5 | Toluene-D8 | 100% | 97% | 68-123 % |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 101% | 62-132 % |

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CH051208-01
Lab Sample ID: M53154-1
Matrix: SO - Oil
Method: SW846 8260B
Project: Quantra NAPL-NJ

Date Sampled: 12/08/05
Date Received: 12/09/05
Percent Solids: n/a

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|---------|----------|--------|----|-------|---|
|---------|----------|--------|----|-------|---|

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|-----------------|------------------------|----------|
| Client Sample ID: | CH051208-01 | Date Sampled: | 12/08/05 |
| Lab Sample ID: | M53154-1 | Date Received: | 12/09/05 |
| Matrix: | SO - Oil | Percent Solids: | n/a |
| Project: | Quantra NAPL-NJ | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------------------|--------|-------|-------|----|----------|-------------|--------|--------------------------|
| Antimony | <0.54 | 0.54 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Arsenic | 35.0 | 0.45 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Beryllium | <0.36 | 0.36 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Cadmium | <0.36 | 0.36 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Chromium | 3.9 | 0.89 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Copper | <2.2 | 2.2 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Lead | <0.45 | 0.45 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Mercury | <0.018 | 0.018 | mg/kg | 1 | 12/15/05 | 12/16/05 | LMN | SW846 7471A ¹ |
| Nickel | <3.6 | 3.6 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Selenium | 1.8 | 0.89 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Silver | <0.45 | 0.45 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Thallium ^a | <1.8 | 1.8 | mg/kg | 2 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |
| Zinc | 2.7 | 1.8 | mg/kg | 1 | 12/14/05 | 12/19/05 | AC | SW846 6010B ² |

- (1) Instrument QC Batch: MA6549
(2) Instrument QC Batch: MA6553
(3) Prep QC Batch: MP8030
(4) Prep QC Batch: MP8035

(a) Elevated RL due to dilution required for matrix interference.

RL = Reporting Limit

CHAIN OF CUSTODY RECORD

PROJECT NAME Quantac

COMPANY META ENV. Inc.

ADDRESS 49 Clarendon St. Watertown MA 02472

PHONE 617-923-4662 x120 FAX 617-923-4610

EMAIL RSIEGENER@METAENV.COM

MS3154

META

Environmental, Inc.

ENGINEERING & CHEMISTRY

49 Clarendon Street
Watertown, MA 02472
TEL: (617) 923-4662
FAX: (617) 923-4610
WWW.METAENV.COM

SAMPLED BY

(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

(Signature)

| SAMPLE NO. | DATE | TIME | SAMPLED AT SITES | SAMPLE ID (SAMPLE LOCATION) | CONTAINER SIZE | GPF | GRAB COMP. | NO. OF CONTAINERS | SAMPLE MATRIX | PRESERVATIVE | ANALYSES | | | | | | | | | | | | COMMENTS | |
|------------|----------|------|------------------|-----------------------------|----------------|-----|------------|-------------------|---------------|--------------|----------|--------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|----------|--|
| | | | | | | | | | | | IPM | METALS | VOC | S260 | POLY | PCP | PCB | PCN | PCB | PCP | PCN | PCB | PCP | |
| -1 | 12/08/05 | | | CH 051208-01 | 250ml | | | 1 | NAPL | None | X | X | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
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|---------------------------------------|----------------------|-------------------------------|-----------|-----------------|-----------|
| Relinquished by <i>Ray Siegner</i> | Date/Time 12/9/05 | Relinquished by <i>UPS</i> | Date/Time | Relinquished by | Date/Time |
|---------------------------------------|----------------------|-------------------------------|-----------|-----------------|-----------|

| | | | | | |
|---------------------------|-----------|--------------------------------------|------------------------------|----------------------------|-----------|
| Received by <i>UPS</i> | Date/Time | Received by <i>Ray M. Sweeney</i> | Date/Time 0845 12-9-05 | Received for Laboratory by | Date/Time |
|---------------------------|-----------|--------------------------------------|------------------------------|----------------------------|-----------|

| | | |
|---------------------|--|----------------------------------|
| Method of Shipment: | Remarks: Please contact Ray Siegner with any questions. | Temp. <u>21.5</u> °C Loc. 12E |
|---------------------|--|----------------------------------|

Appendix E

Biomarker Concentrations

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | UR051207-MB | Matrix: | NAPL |
| File ID: | E122022.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (µl): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------------|-----------------------|-----|-----|----------|
| Terpanes | | | | |
| C19 Tricyclic terpane | U | 2.0 | 1.0 | |
| C20 Tricyclic terpane | U | 2.0 | 1.0 | |
| C21 Tricyclic terpane | U | 2.0 | 1.0 | |
| C22 Tricyclic terpane | U | 2.0 | 1.0 | |
| C23 Tricyclic terpane | U | 2.0 | 1.0 | |
| C24 Tricyclic terpane | U | 2.0 | 1.0 | |
| C25 Tricyclic terpane-22S | U | 2.0 | 1.0 | |
| C25 Tricyclic terpane-22R | U | 2.0 | 1.0 | |
| C26 Tricyclic terpane-22S | U | 2.0 | 1.0 | |
| C26 Tricyclic terpane-22R | U | 2.0 | 1.0 | |
| C24 Tetracyclic terpane | U | 2.0 | 1.0 | |
| C28 Tricyclic terpane-22S | U | 2.0 | 1.0 | |
| C28 Tricyclic terpane-22R | U | 2.0 | 1.0 | |
| C29 Tricyclic terpane-22S | U | 2.0 | 1.0 | |
| C29 Tricyclic terpane-22R | U | 2.0 | 1.0 | |
| 18a(H)-22,29,30-Trisnorhopane - Ts | U | 2.0 | 1.0 | |
| C30 Tricyclic terpane-22S | U | 2.0 | 1.0 | |
| C30 Tricyclic terpane-22R | U | 2.0 | 1.0 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | U | 2.0 | 1.0 | |
| 17b(H)-22,29,30-Trisnorhopane | U | 2.0 | 1.0 | |
| 17a(H)-29,30-Bisnorhopane | U | 2.0 | 1.0 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 2.0 | 1.0 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-25-Norhopane | U | 2.0 | 1.0 | |
| 30-Norhopane | U | 2.0 | 1.0 | |
| 18a(H)-30-Norneohopane - C29Ts | U | 2.0 | 1.0 | |
| 15a-methyl-17a(H)-27-Norhopane | U | 2.0 | 1.0 | |
| Oleananes | U | 2.0 | 1.0 | |
| Hopane | U | 2.0 | 1.0 | |
| Moretane | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-30-Homohopane-22S | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-30-Homohopane-22R | U | 2.0 | 1.0 | |
| Gammacerane | U | 2.0 | 1.0 | |
| 17b(H),21b(H)-Hopane | U | 2.0 | 1.0 | |
| 30-Homomoretane-22R | U | 2.0 | 1.0 | |
| Hop-22(29)-ene | U | 2.0 | 1.0 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | UR051207-MB | | |
| File ID: | E122022.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | UR051207-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|-----|-----|----------|
| 30,31-Bishomohopane-22S | U | 2.0 | 1.0 | |
| 30,31-Bishomohopane-22R | U | 2.0 | 1.0 | |
| 30,31-Bishomomorethane-22R | U | 2.0 | 1.0 | |
| 17b(H),21b(H)-Homohopane-22R | U | 2.0 | 1.0 | |
| 30,31,32-Trishomohopane-22S | U | 2.0 | 1.0 | |
| 30,31,32-Trishomohopane-22R | U | 2.0 | 1.0 | |
| 30,31,32,33-Tetrakishomohopane-22S | U | 2.0 | 1.0 | |
| 30,31,32,33-Tetrakishomohopane-22R | U | 2.0 | 1.0 | |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 2.0 | 1.0 | |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 2.0 | 1.0 | |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | U | 2.0 | 1.0 | |
| C21 14b(H),17b(H)-Sterane | U | 2.0 | 1.0 | |
| C22 14b(H),17b(H)-Sterane | U | 2.0 | 1.0 | |
| C27 13b(H),17a(H)-20S-Diasterane | U | 2.0 | 1.0 | |
| C27 13b(H),17a(H)-20R-Diasterane | U | 2.0 | 1.0 | |
| C27 13a(H),17b(H)-20S-Diasterane | U | 2.0 | 1.0 | |
| C27 13a(H),17b(H)-20R-Diasterane | U | 2.0 | 1.0 | |
| C28 13b(H),17a(H)-20S-Diasterane | U | 2.0 | 1.0 | |
| C28 13a(H),17b(H)-20S-Diasterane | U | 2.0 | 1.0 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 2.0 | 1.0 | |
| C27 14a(H),17a(H)-20S-Cholestane | U | 2.0 | 1.0 | |
| C27 14b(H),17b(H)-20R-Cholestane | U | 2.0 | 1.0 | |
| C27 14b(H),17b(H)-20S-Cholestane | U | 2.0 | 1.0 | |
| C27 14a(H),17a(H)-20R-Cholestane | U | 2.0 | 1.0 | |
| C29 13b(H),17a(H)-20S-Diasterane | U | 2.0 | 1.0 | |
| C29 13b(H),17a(H)-20R-Diasterane | U | 2.0 | 1.0 | |
| C28 14a(H),17a(H)-20S-Methylcholestane | U | 2.0 | 1.0 | |
| C28 14b(H),17b(H)-20R-Methylcholestane | U | 2.0 | 1.0 | |
| C28 14b(H),17b(H)-20S-Methylcholestane | U | 2.0 | 1.0 | |
| C28 14a(H),17a(H)-20R-Methylcholestane | U | 2.0 | 1.0 | |
| C29 14a(H),17a(H)-20S-Ethylcholestane | U | 2.0 | 1.0 | |
| C29 14b(H),17b(H)-20R-Ethylcholestane | U | 2.0 | 1.0 | |
| C29 14b(H),17b(H)-20S-Ethylcholestane | U | 2.0 | 1.0 | |
| C29 14a(H),17a(H)-20R-Ethylcholestane | U | 2.0 | 1.0 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | UR051207-MB | | |
| File ID: | E122022.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (μ l): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Phenanthrene-d10 | 95 | 50 - 120 | | Limits |
| Perylene-d12 | 89 | 50 - 120 | | |
| NA - Not applicable B - Analyte detected in the Blank J - Estimated value; detected between the RL and DL U - Analyte not detected above DL. D - Analyte reported from a diluted extract. E - Estimate, result detected above calibration range. I - Concentration/Peak ID uncertain due to potential interference. RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration. EDL - Estimated detection limit is 50% of RL | | | | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | UR051207-MBS | Matrix: | NAPL |
| File ID: | E122023.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/22/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (μ l): | 2.00 |

| Analyte | Spike Amount | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------------|--------------|-----------------------|-----|-----|------------|
| Terpanes | | | | | % Recovery |
| C19 Tricyclic terpane | NA | U | 2.0 | 1.0 | |
| C20 Tricyclic terpane | NA | U | 2.0 | 1.0 | |
| C21 Tricyclic terpane | NA | U | 2.0 | 1.0 | |
| C22 Tricyclic terpane | NA | U | 2.0 | 1.0 | |
| C23 Tricyclic terpane | NA | U | 2.0 | 1.0 | |
| C24 Tricyclic terpane | NA | U | 2.0 | 1.0 | |
| C25 Tricyclic terpane-22S | NA | U | 2.0 | 1.0 | |
| C25 Tricyclic terpane-22R | NA | U | 2.0 | 1.0 | |
| C26 Tricyclic terpane-22S | NA | U | 2.0 | 1.0 | |
| C26 Tricyclic terpane-22R | NA | U | 2.0 | 1.0 | |
| C24 Tetracyclic terpane | NA | U | 2.0 | 1.0 | |
| C28 Tricyclic terpane-22S | NA | U | 2.0 | 1.0 | |
| C28 Tricyclic terpane-22R | NA | U | 2.0 | 1.0 | |
| C29 Tricyclic terpane-22S | NA | U | 2.0 | 1.0 | |
| C29 Tricyclic terpane-22R | NA | U | 2.0 | 1.0 | |
| 18a(H)-22,29,30-Trisnorhopane - Ts | NA | U | 2.0 | 1.0 | |
| C30 Tricyclic terpane-22S | NA | U | 2.0 | 1.0 | |
| C30 Tricyclic terpane-22R | NA | U | 2.0 | 1.0 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | NA | U | 2.0 | 1.0 | |
| 17b(H)-22,29,30-Trisnorhopane | NA | U | 2.0 | 1.0 | |
| 17a(H)-29,30-Bisnorhopane | NA | U | 2.0 | 1.0 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | NA | U | 2.0 | 1.0 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | NA | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | NA | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-25-Norhopane | NA | U | 2.0 | 1.0 | |
| 30-Norhopane | NA | U | 2.0 | 1.0 | |
| 18a(H)-30-Nornehopane - C29Ts | NA | U | 2.0 | 1.0 | |
| 15a-methyl-17a(H)-27-Norhopane | NA | U | 2.0 | 1.0 | |
| Oleananes | NA | U | 2.0 | 1.0 | |
| Hopane | NA | U | 2.0 | 1.0 | |
| Moretane | NA | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-30-Homohopane-22S | NA | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-30-Homohopane-22R | NA | U | 2.0 | 1.0 | |
| Gammacerane | NA | U | 2.0 | 1.0 | |
| 17b(H),21b(H)-Hopane | NA | U | 2.0 | 1.0 | |
| 30-Homomoretane-22R | NA | U | 2.0 | 1.0 | |
| Hop-22(29)-ene | NA | U | 2.0 | 1.0 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | UR051207-MBS | | |
| File ID: | E122023.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/22/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (μ l): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----|-----|----------|
| 30,31-Bishomohopane-22S | NA | U | 2.0 | 1.0 |
| 30,31-Bishomohopane-22R | NA | U | 2.0 | 1.0 |
| 30,31-Bishomomoretane-22R | NA | U | 2.0 | 1.0 |
| 17b(H),21b(H)-Homohopane-22R | NA | U | 2.0 | 1.0 |
| 30,31,32-Trishomohopane-22S | NA | U | 2.0 | 1.0 |
| 30,31,32-Trishomohopane-22R | NA | U | 2.0 | 1.0 |
| 30,31,32,33-Tetrakishomohopane-22S | NA | U | 2.0 | 1.0 |
| 30,31,32,33-Tetrakishomohopane-22R | NA | U | 2.0 | 1.0 |
| 30,31,32,33,34-Pentakishomohopane-22S | NA | U | 2.0 | 1.0 |
| 30,31,32,33,34-Pentakishomohopane-22R | NA | U | 2.0 | 1.0 |
| 30,31,32,33,34-Pentakishomohopane-22f | NA | U | 2.0 | 1.0 |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | NA | U | 2.0 | 1.0 |
| C21 14b(H),17b(H)-Sterane | NA | U | 2.0 | 1.0 |
| C22 14b(H),17b(H)-Sterane | NA | U | 2.0 | 1.0 |
| C27 13b(H),17a(H)-20S-Diasterane | NA | U | 2.0 | 1.0 |
| C27 13b(H),17a(H)-20R-Diasterane | NA | U | 2.0 | 1.0 |
| C27 13a(H),17b(H)-20S-Diasterane | NA | U | 2.0 | 1.0 |
| C27 13a(H),17b(H)-20R-Diasterane | NA | U | 2.0 | 1.0 |
| C28 13b(H),17a(H)-20S-Diasterane | NA | U | 2.0 | 1.0 |
| C28 13a(H),17b(H)-20S-Diasterane | NA | U | 2.0 | 1.0 |
| C28 13a(H),17b(H)-20R-Diasterane | NA | U | 2.0 | 1.0 |
| C27 14a(H),17a(H)-20S-Cholestane | NA | U | 2.0 | 1.0 |
| C27 14b(H),17b(H)-20R-Cholestane | NA | U | 2.0 | 1.0 |
| C27 14b(H),17b(H)-20S-Cholestane | NA | U | 2.0 | 1.0 |
| C27 14a(H),17a(H)-20R-Cholestane | NA | U | 2.0 | 1.0 |
| C29 13b(H),17a(H)-20S-Diasterane | NA | U | 2.0 | 1.0 |
| C29 13b(H),17a(H)-20R-Diasterane | NA | U | 2.0 | 1.0 |
| C28 14a(H),17a(H)-20S-Methylcholestane | NA | U | 2.0 | 1.0 |
| C28 14b(H),17b(H)-20R-Methylcholestane | NA | U | 2.0 | 1.0 |
| C28 14b(H),17b(H)-20S-Methylcholestane | NA | U | 2.0 | 1.0 |
| C28 14a(H),17a(H)-20R-Methylcholestane | NA | U | 2.0 | 1.0 |
| C29 14a(H),17a(H)-20S-Ethylcholestane | NA | U | 2.0 | 1.0 |
| C29 14b(H),17b(H)-20R-Ethylcholestane | NA | U | 2.0 | 1.0 |
| C29 14b(H),17b(H)-20S-Ethylcholestane | NA | U | 2.0 | 1.0 |
| C29 14a(H),17a(H)-20R-Ethylcholestane | NA | U | 2.0 | 1.0 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | UR051207-MBS | | |
| File ID: | E122023.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/22/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (μ l): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Phenanthrene-d10 | 84 | 50 - 120 | | Limits |
| Perylene-d12 | 86 | 50 - 120 | | |
| NA - Not applicable B - Analyte detected in the Blank J - Estimated value; detected between the RL and DL U - Analyte not detected above DL. D - Analyte reported from a diluted extract. E - Estimate, result detected above calibration range. I - Concentration/Peak ID uncertain due to potential interference. RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration. EDL - Estimated detection limit is 50% of RL | | | | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-105D-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-01 | | |
| File ID: | E122013.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | UR051207-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------------|-----------------------|-----|-------|----------|
| Terpanes | | | | |
| C19 Tricyclic terpane | 314 | 1.9 | 0.950 | |
| C20 Tricyclic terpane | 1,200 | 1.9 | 0.950 | |
| C21 Tricyclic terpane | 8.06 | 1.9 | 0.950 | |
| C22 Tricyclic terpane | U | 1.9 | 0.950 | |
| C23 Tricyclic terpane | 4.39 | 1.9 | 0.950 | |
| C24 Tricyclic terpane | U | 1.9 | 0.950 | |
| C25 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C25 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| C26 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C26 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| C24 Tetracyclic terpane | 71.6 | 1.9 | 0.950 | |
| C28 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C28 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| C29 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C29 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| 18a(H)-22,29,30-Trisnorhopane - Ts | 2.13 | 1.9 | 0.950 | |
| C30 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C30 Tricyclic terpane-22R | 4.76 | 1.9 | 0.950 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | U | 1.9 | 0.950 | |
| 17b(H)-22,29,30-Trisnorhopane | U | 1.9 | 0.950 | |
| 17a(H)-29,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17a(H),21b(H)-25-Norhopane | U | 1.9 | 0.950 | |
| 30-Norhopane | 6.08 | 1.9 | 0.950 | |
| 18a(H)-30-Norneohopane - C29Ts | 1.0 J | 1.9 | 0.950 | |
| 15a-methyl-17a(H)-27-Norhopane | 1.2 J | 1.9 | 0.950 | |
| Oleananes | U | 1.9 | 0.950 | |
| Hopane | 7.99 | 1.9 | 0.950 | |
| Moretane | 4.51 | 1.9 | 0.950 | |
| 17a(H),21b(H)-30-Homohopane-22S | 2.55 | 1.9 | 0.950 | |
| 17a(H),21b(H)-30-Homohopane-22R | 3.21 | 1.9 | 0.950 | |
| Gammacerane | U | 1.9 | 0.950 | |
| 17b(H),21b(H)-Hopane | U | 1.9 | 0.950 | |
| 30-Homomorethane-22R | U | 1.9 | 0.950 | |
| Hop-22(29)-ene | U | 1.9 | 0.950 | |
| 30,31-Bishomohopane-22S | U | 1.9 | 0.950 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-105D-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-01 | Matrix: | NAPL |
| File ID: | E122013.D | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (µl): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|-----|-------|----------|
| 30,31-Bishomohopane-22R | U | 1.9 | 0.950 | |
| 30,31-Bishomomorethane-22R | U | 1.9 | 0.950 | |
| 17b(H),21b(H)-Homohopane-22R | U | 1.9 | 0.950 | |
| 30,31,32-Trishomohopane-22S | U | 1.9 | 0.950 | |
| 30,31,32-Trishomohopane-22R | U | 1.9 | 0.950 | |
| 30,31,32,33-Tetrakishomohopane-22S | U | 1.9 | 0.950 | |
| 30,31,32,33-Tetrakishomohopane-22R | U | 1.9 | 0.950 | |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 1.9 | 0.950 | |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 1.9 | 0.950 | |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | 25.7 | 1.9 | 0.950 | |
| C21 14b(H),17b(H)-Sterane | 2,830 | E | 1.9 | 0.950 |
| C22 14b(H),17b(H)-Sterane | 55.3 | | 1.9 | 0.950 |
| C27 13b(H),17a(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C27 13b(H),17a(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C27 13a(H),17b(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C27 13a(H),17b(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C28 13b(H),17a(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C28 13a(H),17b(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C27 14a(H),17a(H)-20S-Cholestane | U | 1.9 | 0.950 | |
| C27 14b(H),17b(H)-20R-Cholestane | U | 1.9 | 0.950 | |
| C27 14b(H),17b(H)-20S-Cholestane | U | 1.9 | 0.950 | |
| C27 14a(H),17a(H)-20R-Cholestane | U | 1.9 | 0.950 | |
| C29 13b(H),17a(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C29 13b(H),17a(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C28 14a(H),17a(H)-20S-Methylcholestane | U | 1.9 | 0.950 | |
| C28 14b(H),17b(H)-20R-Methylcholestane | U | 1.9 | 0.950 | |
| C28 14b(H),17b(H)-20S-Methylcholestane | U | 1.9 | 0.950 | |
| C28 14a(H),17a(H)-20R-Methylcholestane | U | 1.9 | 0.950 | |
| C29 14a(H),17a(H)-20S-Ethylcholestane | 13.4 | | 1.9 | 0.950 |
| C29 14b(H),17b(H)-20R-Ethylcholestane | U | 1.9 | 0.950 | |
| C29 14b(H),17b(H)-20S-Ethylcholestane | U | 1.9 | 0.950 | |
| C29 14a(H),17a(H)-20R-Ethylcholestane | U | 1.9 | 0.950 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-105D-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-01 | | |
| File ID: | E122013.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | El Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (μ l): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Phenanthrene-d10 | 87 | 50 - 120 | | Limits |
| Perylene-d12 | 119 | 50 - 120 | | |
| NA - Not applicable B - Analyte detected in the Blank J - Estimated value; detected between the RL and DL. U - Analyte not detected above DL. D - Analyte reported from a diluted extract. E - Estimate, result detected above calibration range. I - Concentration/Peak ID uncertain due to potential interference. RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration. EDL - Estimated detection limit is 50% of RL | | | | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-106BD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-02 | | |
| File ID: | E122014.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0109 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (μ l): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------------|-----------------------|------|-------|----------|
| Terpanes | | | | |
| C19 Tricyclic terpane | 468 | 1.83 | 0.915 | |
| C20 Tricyclic terpane | 1,060 | 1.83 | 0.915 | |
| C21 Tricyclic terpane | 7.78 | 1.83 | 0.915 | |
| C22 Tricyclic terpane | U | 1.83 | 0.915 | |
| C23 Tricyclic terpane | U | 1.83 | 0.915 | |
| C24 Tricyclic terpane | U | 1.83 | 0.915 | |
| C25 Tricyclic terpane-22S | U | 1.83 | 0.915 | |
| C25 Tricyclic terpane-22R | U | 1.83 | 0.915 | |
| C26 Tricyclic terpane-22S | U | 1.83 | 0.915 | |
| C26 Tricyclic terpane-22R | U | 1.83 | 0.915 | |
| C24 Tetracyclic terpane | 42.8 | 1.83 | 0.915 | |
| C28 Tricyclic terpane-22S | U | 1.83 | 0.915 | |
| C28 Tricyclic terpane-22R | U | 1.83 | 0.915 | |
| C29 Tricyclic terpane-22S | U | 1.83 | 0.915 | |
| C29 Tricyclic terpane-22R | U | 1.83 | 0.915 | |
| 18a(H)-22,29,30-Trisnorhopane - Ts | U | 1.83 | 0.915 | |
| C30 Tricyclic terpane-22S | U | 1.83 | 0.915 | |
| C30 Tricyclic terpane-22R | 1.6 J | 1.83 | 0.915 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | U | 1.83 | 0.915 | |
| 17b(H)-22,29,30-Trisnorhopane | U | 1.83 | 0.915 | |
| 17a(H)-29,30-Bisnorhopane | U | 1.83 | 0.915 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 1.83 | 0.915 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 1.83 | 0.915 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 1.83 | 0.915 | |
| 17a(H),21b(H)-25-Norhopane | U | 1.83 | 0.915 | |
| 30-Norhopane | 2.25 | 1.83 | 0.915 | |
| 18a(H)-30-Norneohopane - C29Ts | U | 1.83 | 0.915 | |
| 15a-methyl-17a(H)-27-Norhopane | U | 1.83 | 0.915 | |
| Oleananes | U | 1.83 | 0.915 | |
| Hopane | 2.01 | 1.83 | 0.915 | |
| Moretane | 1.32 J | 1.83 | 0.915 | |
| 17a(H),21b(H)-30-Homohopane-22S | U | 1.83 | 0.915 | |
| 17a(H),21b(H)-30-Homohopane-22R | U | 1.83 | 0.915 | |
| Gammacerane | U | 1.83 | 0.915 | |
| 17b(H),21b(H)-Hopane | U | 1.83 | 0.915 | |
| 30-Homomoretane-22R | U | 1.83 | 0.915 | |
| Hop-22(29)-ene | U | 1.83 | 0.915 | |
| 30,31-Bishomohopane-22S | U | 1.83 | 0.915 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-106BD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-02 | | |
| File ID: | E122014.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0109 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (μ l): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|------|-------|----------|
| 30,31-Bishomohopane-22R | U | 1.83 | 0.915 | |
| 30,31-Bishomomorethane-22R | U | 1.83 | 0.915 | |
| 17b(H),21b(H)-Homohopane-22R | U | 1.83 | 0.915 | |
| 30,31,32-Trishomohopane-22S | U | 1.83 | 0.915 | |
| 30,31,32-Trishomohopane-22R | U | 1.83 | 0.915 | |
| 30,31,32,33-Tetrakishomohopane-22S | U | 1.83 | 0.915 | |
| 30,31,32,33-Tetrakishomohopane-22R | U | 1.83 | 0.915 | |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 1.83 | 0.915 | |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 1.83 | 0.915 | |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | 58.1 | 1.83 | 0.915 | |
| C21 14b(H),17b(H)-Sterane | 2,510 | E | 1.83 | 0.915 |
| C22 14b(H),17b(H)-Sterane | 64.4 | | 1.83 | 0.915 |
| C27 13b(H),17a(H)-20S-Diasterane | U | 1.83 | 0.915 | |
| C27 13b(H),17a(H)-20R-Diasterane | U | 1.83 | 0.915 | |
| C27 13a(H),17b(H)-20S-Diasterane | U | 1.83 | 0.915 | |
| C27 13a(H),17b(H)-20R-Diasterane | U | 1.83 | 0.915 | |
| C28 13b(H),17a(H)-20S-Diasterane | U | 1.83 | 0.915 | |
| C28 13a(H),17b(H)-20S-Diasterane | U | 1.83 | 0.915 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 1.83 | 0.915 | |
| C27 14a(H),17a(H)-20S-Cholestane | U | 1.83 | 0.915 | |
| C27 14b(H),17b(H)-20R-Cholestane | U | 1.83 | 0.915 | |
| C27 14b(H),17b(H)-20S-Cholestane | U | 1.83 | 0.915 | |
| C27 14a(H),17a(H)-20R-Cholestane | U | 1.83 | 0.915 | |
| C29 13b(H),17a(H)-20S-Diasterane | U | 1.83 | 0.915 | |
| C29 13b(H),17a(H)-20R-Diasterane | U | 1.83 | 0.915 | |
| C28 14a(H),17a(H)-20S-Methylcholestane | U | 1.83 | 0.915 | |
| C28 14b(H),17b(H)-20R-Methylcholestane | U | 1.83 | 0.915 | |
| C28 14b(H),17b(H)-20S-Methylcholestane | U | 1.83 | 0.915 | |
| C28 14a(H),17a(H)-20R-Methylcholestane | U | 1.83 | 0.915 | |
| C29 14a(H),17a(H)-20S-Ethylcholestane | U | 1.83 | 0.915 | |
| C29 14b(H),17b(H)-20R-Ethylcholestane | U | 1.83 | 0.915 | |
| C29 14b(H),17b(H)-20S-Ethylcholestane | U | 1.83 | 0.915 | |
| C29 14a(H),17a(H)-20R-Ethylcholestane | U | 1.83 | 0.915 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-106BD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-02 | | |
| File ID: | E122014.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0109 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (μ l): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Phenanthrene-d10 | 84 | 50 - 120 | | Limits |
| Perylene-d12 | 108 | 50 - 120 | | |
| NA - Not applicable B - Analyte detected in the Blank J - Estimated value; detected between the RL and DL U - Analyte not detected above DL. D - Analyte reported from a diluted extract. E - Estimate, result detected above calibration range. I - Concentration/Peak ID uncertain due to potential interference. RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration. EDL - Estimated detection limit is 50% of RL | | | | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-102AD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-03 | | |
| File ID: | E122015.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | El Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | UR051207-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------------|-----------------------|-----|-------|----------|
| Terpanes | | | | |
| C19 Tricyclic terpane | 305 | 1.9 | 0.950 | |
| C20 Tricyclic terpane | 886 | 1.9 | 0.950 | |
| C21 Tricyclic terpane | 7.58 | 1.9 | 0.950 | |
| C22 Tricyclic terpane | U | 1.9 | 0.950 | |
| C23 Tricyclic terpane | 1.26 J | 1.9 | 0.950 | |
| C24 Tricyclic terpane | U | 1.9 | 0.950 | |
| C25 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C25 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| C26 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C26 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| C24 Tetracyclic terpane | 22.3 | 1.9 | 0.950 | |
| C28 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C28 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| C29 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C29 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| 18a(H)-22,29,30-Trisnorhopane - Ts | U | 1.9 | 0.950 | |
| C30 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C30 Tricyclic terpane-22R | 2.27 | 1.9 | 0.950 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | 2.27 | 1.9 | 0.950 | |
| 17b(H)-22,29,30-Trisnorhopane | U | 1.9 | 0.950 | |
| 17a(H)-29,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17a(H),21b(H)-25-Norhopane | U | 1.9 | 0.950 | |
| 30-Norhopane | 2.82 | 1.9 | 0.950 | |
| 18a(H)-30-Norneohopane - C29Ts | U | 1.9 | 0.950 | |
| 15a-methyl-17a(H)-27-Norhopane | U | 1.9 | 0.950 | |
| Oleananes | U | 1.9 | 0.950 | |
| Hopane | 3.08 | 1.9 | 0.950 | |
| Moretane | 1.36 J | 1.9 | 0.950 | |
| 17a(H),21b(H)-30-Homohopane-22S | U | 1.9 | 0.950 | |
| 17a(H),21b(H)-30-Homohopane-22R | U | 1.9 | 0.950 | |
| Gammacerane | U | 1.9 | 0.950 | |
| 17b(H),21b(H)-Hopane | U | 1.9 | 0.950 | |
| 30-Homomorethane-22R | U | 1.9 | 0.950 | |
| Hop-22(29)-ene | U | 1.9 | 0.950 | |
| 30,31-Bishomohopane-22S | U | 1.9 | 0.950 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-102AD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-03 | | |
| File ID: | E122015.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | UR051207-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|-----|-------|----------|
| 30,31-Bishomohopane-22R | U | 1.9 | 0.950 | |
| 30,31-Bishomomorethane-22R | U | 1.9 | 0.950 | |
| 17b(H),21b(H)-Homohopane-22R | U | 1.9 | 0.950 | |
| 30,31,32-Trishomohopane-22S | U | 1.9 | 0.950 | |
| 30,31,32-Trishomohopane-22R | U | 1.9 | 0.950 | |
| 30,31,32,33-Tetrakishomohopane-22S | U | 1.9 | 0.950 | |
| 30,31,32,33-Tetrakishomohopane-22R | U | 1.9 | 0.950 | |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 1.9 | 0.950 | |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 1.9 | 0.950 | |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | 45.2 | 1.9 | 0.950 | |
| C21 14b(H),17b(H)-Sterane | 1,510 | 1.9 | 0.950 | |
| C22 14b(H),17b(H)-Sterane | 36.5 | 1.9 | 0.950 | |
| C27 13b(H),17a(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C27 13b(H),17a(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C27 13a(H),17b(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C27 13a(H),17b(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C28 13b(H),17a(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C28 13a(H),17b(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C27 14a(H),17a(H)-20S-Cholestane | U | 1.9 | 0.950 | |
| C27 14b(H),17b(H)-20R-Cholestane | U | 1.9 | 0.950 | |
| C27 14b(H),17b(H)-20S-Cholestane | U | 1.9 | 0.950 | |
| C27 14a(H),17a(H)-20R-Cholestane | U | 1.9 | 0.950 | |
| C29 13b(H),17a(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C29 13b(H),17a(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C28 14a(H),17a(H)-20S-Methylcholestane | U | 1.9 | 0.950 | |
| C28 14b(H),17b(H)-20R-Methylcholestane | U | 1.9 | 0.950 | |
| C28 14b(H),17b(H)-20S-Methylcholestane | U | 1.9 | 0.950 | |
| C28 14a(H),17a(H)-20R-Methylcholestane | U | 1.9 | 0.950 | |
| C29 14a(H),17a(H)-20S-Ethylcholestane | U | 1.9 | 0.950 | |
| C29 14b(H),17b(H)-20R-Ethylcholestane | U | 1.9 | 0.950 | |
| C29 14b(H),17b(H)-20S-Ethylcholestane | U | 1.9 | 0.950 | |
| C29 14a(H),17a(H)-20R-Ethylcholestane | U | 1.9 | 0.950 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-102AD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-03 | | |
| File ID: | E122015.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | UR051207-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Phenanthrene-d10 | 82 | 50 - 120 | | Limits |
| Perylene-d12 | 99 | 50 - 120 | | |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-112BD-112305**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-04 | | |
| File ID: | E122016.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0111 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 2.00 |
| Batch QC: | UR051207-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------------|-----------------------|-----|-------|----------|
| Terpanes | | | | |
| C19 Tricyclic terpane | 393 | 1.8 | 0.900 | |
| C20 Tricyclic terpane | 1,830 E | 1.8 | 0.900 | |
| C21 Tricyclic terpane | 13.7 | 1.8 | 0.900 | |
| C22 Tricyclic terpane | 14.3 | 1.8 | 0.900 | |
| C23 Tricyclic terpane | 2.1 | 1.8 | 0.900 | |
| C24 Tricyclic terpane | 2.17 | 1.8 | 0.900 | |
| C25 Tricyclic terpane-22S | U | 1.8 | 0.900 | |
| C25 Tricyclic terpane-22R | U | 1.8 | 0.900 | |
| C26 Tricyclic terpane-22S | U | 1.8 | 0.900 | |
| C26 Tricyclic terpane-22R | U | 1.8 | 0.900 | |
| C24 Tetracyclic terpane | 8.46 | 1.8 | 0.900 | |
| C28 Tricyclic terpane-22S | U | 1.8 | 0.900 | |
| C28 Tricyclic terpane-22R | U | 1.8 | 0.900 | |
| C29 Tricyclic terpane-22S | U | 1.8 | 0.900 | |
| C29 Tricyclic terpane-22R | U | 1.8 | 0.900 | |
| 18a(H)-22,29,30-Trisnorneohopane - Ts | U | 1.8 | 0.900 | |
| C30 Tricyclic terpane-22S | U | 1.8 | 0.900 | |
| C30 Tricyclic terpane-22R | U | 1.8 | 0.900 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | U | 1.8 | 0.900 | |
| 17b(H)-22,29,30-Trisnorhopane | U | 1.8 | 0.900 | |
| 17a(H)-29,30-Bisnorhopane | U | 1.8 | 0.900 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 1.8 | 0.900 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 1.8 | 0.900 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 1.8 | 0.900 | |
| 17a(H),21b(H)-25-Norhopane | U | 1.8 | 0.900 | |
| 30-Norhopane | 1.12 J | 1.8 | 0.900 | |
| 18a(H)-30-Norneohopane - C29Ts | U | 1.8 | 0.900 | |
| 15a-methyl-17a(H)-27-Norhopane | U | 1.8 | 0.900 | |
| Oleananes | U | 1.8 | 0.900 | |
| Hopane | 2.17 | 1.8 | 0.900 | |
| Moretane | U | 1.8 | 0.900 | |
| 17a(H),21b(H)-30-Homohopane-22S | U | 1.8 | 0.900 | |
| 17a(H),21b(H)-30-Homohopane-22R | U | 1.8 | 0.900 | |
| Gammacerane | U | 1.8 | 0.900 | |
| 17b(H),21b(H)-Hopane | U | 1.8 | 0.900 | |
| 30-Homomorethane-22R | U | 1.8 | 0.900 | |
| Hop-22(29)-ene | U | 1.8 | 0.900 | |
| 30,31-Bishomohopane-22S | U | 1.8 | 0.900 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-112BD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-04 | | |
| File ID: | E122016.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0111 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | UR051207-MB | Injection Volume (μ l): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|-----|-------|----------|
| 30,31-Bishomohopane-22R | U | 1.8 | 0.900 | |
| 30,31-Bishomomorethane-22R | U | 1.8 | 0.900 | |
| 17b(H),21b(H)-Homohopane-22R | U | 1.8 | 0.900 | |
| 30,31,32-Trishomohopane-22S | U | 1.8 | 0.900 | |
| 30,31,32-Trishomohopane-22R | U | 1.8 | 0.900 | |
| 30,31,32,33-Tetrakishomohopane-22S | U | 1.8 | 0.900 | |
| 30,31,32,33-Tetrakishomohopane-22R | U | 1.8 | 0.900 | |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 1.8 | 0.900 | |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 1.8 | 0.900 | |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | 61.9 | 1.8 | 0.900 | |
| C21 14b(H),17b(H)-Sterane | 2,200 | E | 1.8 | 0.900 |
| C22 14b(H),17b(H)-Sterane | 56.7 | | 1.8 | 0.900 |
| C27 13b(H),17a(H)-20S-Diasterane | U | 1.8 | 0.900 | |
| C27 13b(H),17a(H)-20R-Diasterane | U | 1.8 | 0.900 | |
| C27 13a(H),17b(H)-20S-Diasterane | U | 1.8 | 0.900 | |
| C27 13a(H),17b(H)-20R-Diasterane | U | 1.8 | 0.900 | |
| C28 13b(H),17a(H)-20S-Diasterane | U | 1.8 | 0.900 | |
| C28 13a(H),17b(H)-20S-Diasterane | U | 1.8 | 0.900 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 1.8 | 0.900 | |
| C27 14a(H),17a(H)-20S-Cholestane | U | 1.8 | 0.900 | |
| C27 14b(H),17b(H)-20R-Cholestane | U | 1.8 | 0.900 | |
| C27 14b(H),17b(H)-20S-Cholestane | U | 1.8 | 0.900 | |
| C27 14a(H),17a(H)-20R-Cholestane | U | 1.8 | 0.900 | |
| C29 13b(H),17a(H)-20S-Diasterane | U | 1.8 | 0.900 | |
| C29 13b(H),17a(H)-20R-Diasterane | U | 1.8 | 0.900 | |
| C28 14a(H),17a(H)-20S-Methylcholestane | U | 1.8 | 0.900 | |
| C28 14b(H),17b(H)-20R-Methylcholestane | U | 1.8 | 0.900 | |
| C28 14b(H),17b(H)-20S-Methylcholestane | U | 1.8 | 0.900 | |
| C28 14a(H),17a(H)-20R-Methylcholestane | U | 1.8 | 0.900 | |
| C29 14a(H),17a(H)-20S-Ethylcholestane | U | 1.8 | 0.900 | |
| C29 14b(H),17b(H)-20R-Ethylcholestane | U | 1.8 | 0.900 | |
| C29 14b(H),17b(H)-20S-Ethylcholestane | U | 1.8 | 0.900 | |
| C29 14a(H),17a(H)-20R-Ethylcholestane | U | 1.8 | 0.900 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-112BD-112305**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051203-04 | | |
| File ID: | E122016.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0111 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | UR051207-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Phenanthrene-d10 | 82 | 50 - 120 | | Limits |
| Perylene-d12 | 101 | 50 - 120 | | |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MB2 | Matrix: | NAPL |
| File ID: | E122019.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH051212-MB2 | Injection Volume (µl): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------------|-----------------------|-----|-----|----------|
| Terpanes | | | | |
| C19 Tricyclic terpane | U | 2.0 | 1.0 | |
| C20 Tricyclic terpane | U | 2.0 | 1.0 | |
| C21 Tricyclic terpane | U | 2.0 | 1.0 | |
| C22 Tricyclic terpane | U | 2.0 | 1.0 | |
| C23 Tricyclic terpane | U | 2.0 | 1.0 | |
| C24 Tricyclic terpane | U | 2.0 | 1.0 | |
| C25 Tricyclic terpane-22S | U | 2.0 | 1.0 | |
| C25 Tricyclic terpane-22R | U | 2.0 | 1.0 | |
| C26 Tricyclic terpane-22S | U | 2.0 | 1.0 | |
| C26 Tricyclic terpane-22R | U | 2.0 | 1.0 | |
| C24 Tetracyclic terpane | U | 2.0 | 1.0 | |
| C28 Tricyclic terpane-22S | U | 2.0 | 1.0 | |
| C28 Tricyclic terpane-22R | U | 2.0 | 1.0 | |
| C29 Tricyclic terpane-22S | U | 2.0 | 1.0 | |
| C29 Tricyclic terpane-22R | U | 2.0 | 1.0 | |
| 18a(H)-22,29,30-Trisnorneohopane - Ts | U | 2.0 | 1.0 | |
| C30 Tricyclic terpane-22S | U | 2.0 | 1.0 | |
| C30 Tricyclic terpane-22R | U | 2.0 | 1.0 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | U | 2.0 | 1.0 | |
| 17b(H)-22,29,30-Trisnorhopane | U | 2.0 | 1.0 | |
| 17a(H)-29,30-Bisnorhopane | U | 2.0 | 1.0 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 2.0 | 1.0 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-25-Norhopane | U | 2.0 | 1.0 | |
| 30-Norhopane | U | 2.0 | 1.0 | |
| 18a(H)-30-Norneohopane - C29Ts | U | 2.0 | 1.0 | |
| 15a-methyl-17a(H)-27-Norhopane | U | 2.0 | 1.0 | |
| Oleananes | U | 2.0 | 1.0 | |
| Hopane | U | 2.0 | 1.0 | |
| Moretane | 3.16 | 2.0 | 1.0 | |
| 17a(H),21b(H)-30-Homohopane-22S | U | 2.0 | 1.0 | |
| 17a(H),21b(H)-30-Homohopane-22R | U | 2.0 | 1.0 | |
| Gammacerane | U | 2.0 | 1.0 | |
| 17b(H),21b(H)-Hopane | U | 2.0 | 1.0 | |
| 30-Homomoretane-22R | U | 2.0 | 1.0 | |
| Hop-22(29)-ene | U | 2.0 | 1.0 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MB2 | | |
| File ID: | E122019.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | El Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | CH051212-MB2 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|-----|-----|----------|
| 30,31-Bishomohopane-22S | U | 2.0 | 1.0 | |
| 30,31-Bishomohopane-22R | U | 2.0 | 1.0 | |
| 30,31-Bishomomorethane-22R | U | 2.0 | 1.0 | |
| 17b(H),21b(H)-Homohopane-22R | U | 2.0 | 1.0 | |
| 30,31,32-Trishomohopane-22S | U | 2.0 | 1.0 | |
| 30,31,32-Trishomohopane-22R | U | 2.0 | 1.0 | |
| 30,31,32,33-Tetrakishomohopane-22S | U | 2.0 | 1.0 | |
| 30,31,32,33-Tetrakishomohopane-22R | U | 2.0 | 1.0 | |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 2.0 | 1.0 | |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 2.0 | 1.0 | |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | U | 2.0 | 1.0 | |
| C21 14b(H),17b(H)-Sterane | U | 2.0 | 1.0 | |
| C22 14b(H),17b(H)-Sterane | U | 2.0 | 1.0 | |
| C27 13b(H),17a(H)-20S-Diasterane | U | 2.0 | 1.0 | |
| C27 13b(H),17a(H)-20R-Diasterane | U | 2.0 | 1.0 | |
| C27 13a(H),17b(H)-20S-Diasterane | U | 2.0 | 1.0 | |
| C27 13a(H),17b(H)-20R-Diasterane | U | 2.0 | 1.0 | |
| C28 13b(H),17a(H)-20S-Diasterane | U | 2.0 | 1.0 | |
| C28 13a(H),17b(H)-20S-Diasterane | U | 2.0 | 1.0 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 2.0 | 1.0 | |
| C27 14a(H),17a(H)-20S-Cholestane | U | 2.0 | 1.0 | |
| C27 14b(H),17b(H)-20R-Cholestane | U | 2.0 | 1.0 | |
| C27 14b(H),17b(H)-20S-Cholestane | U | 2.0 | 1.0 | |
| C27 14a(H),17a(H)-20R-Cholestane | U | 2.0 | 1.0 | |
| C29 13b(H),17a(H)-20S-Diasterane | U | 2.0 | 1.0 | |
| C29 13b(H),17a(H)-20R-Diasterane | U | 2.0 | 1.0 | |
| C28 14a(H),17a(H)-20S-Methylcholestane | U | 2.0 | 1.0 | |
| C28 14b(H),17b(H)-20R-Methylcholestane | U | 2.0 | 1.0 | |
| C28 14b(H),17b(H)-20S-Methylcholestane | U | 2.0 | 1.0 | |
| C28 14a(H),17a(H)-20R-Methylcholestane | U | 2.0 | 1.0 | |
| C29 14a(H),17a(H)-20S-Ethylcholestane | U | 2.0 | 1.0 | |
| C29 14b(H),17b(H)-20R-Ethylcholestane | U | 2.0 | 1.0 | |
| C29 14b(H),17b(H)-20S-Ethylcholestane | U | 2.0 | 1.0 | |
| C29 14a(H),17a(H)-20R-Ethylcholestane | U | 2.0 | 1.0 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MB2 | | |
| File ID: | E122019.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH051212-MB2 | Injection Volume (µl): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Phenanthrene-d10 | 81 | 50 - 120 | | Limits |
| Perylene-d12 | 87 | 50 - 120 | | |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MBS2 | | |
| File ID: | E122020.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 2.00 |
| Batch QC: | CH051212-MB2 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------------|-----------------------|----|-----|-------------------|
| Terpanes | Spike Amount | | | % Recovery |
| C19 Tricyclic terpane | NA | U | 2.0 | 1.0 |
| C20 Tricyclic terpane | NA | U | 2.0 | 1.0 |
| C21 Tricyclic terpane | NA | U | 2.0 | 1.0 |
| C22 Tricyclic terpane | NA | U | 2.0 | 1.0 |
| C23 Tricyclic terpane | NA | U | 2.0 | 1.0 |
| C24 Tricyclic terpane | NA | U | 2.0 | 1.0 |
| C25 Tricyclic terpane-22S | NA | U | 2.0 | 1.0 |
| C25 Tricyclic terpane-22R | NA | U | 2.0 | 1.0 |
| C26 Tricyclic terpane-22S | NA | U | 2.0 | 1.0 |
| C26 Tricyclic terpane-22R | NA | U | 2.0 | 1.0 |
| C24 Tetracyclic terpane | NA | U | 2.0 | 1.0 |
| C28 Tricyclic terpane-22S | NA | U | 2.0 | 1.0 |
| C28 Tricyclic terpane-22R | NA | U | 2.0 | 1.0 |
| C29 Tricyclic terpane-22S | NA | U | 2.0 | 1.0 |
| C29 Tricyclic terpane-22R | NA | U | 2.0 | 1.0 |
| 18a(H)-22,29,30-Trisnorneohopane - Ts | NA | U | 2.0 | 1.0 |
| C30 Tricyclic terpane-22S | NA | U | 2.0 | 1.0 |
| C30 Tricyclic terpane-22R | NA | U | 2.0 | 1.0 |
| 17a(H)-22,29,30-Trisnorhopane - Tm | NA | U | 2.0 | 1.0 |
| 17b(H)-22,29,30-Trisnorhopane | NA | U | 2.0 | 1.0 |
| 17a(H)-29,30-Bisnorhopane | NA | U | 2.0 | 1.0 |
| 17b(H),21b(H)-28,30-Bisnorhopane | NA | U | 2.0 | 1.0 |
| 17b(H),21a(H)-28,30-Bisnorhopane | NA | U | 2.0 | 1.0 |
| 17a(H),21b(H)-28,30-Bisnorhopane | NA | U | 2.0 | 1.0 |
| 17a(H),21b(H)-25-Norhopane | NA | U | 2.0 | 1.0 |
| 30-Norhopane | NA | U | 2.0 | 1.0 |
| 18a(H)-30-Norneohopane - C29Ts | NA | U | 2.0 | 1.0 |
| 15a-methyl-17a(H)-27-Norhopane | NA | U | 2.0 | 1.0 |
| Oleananes | NA | U | 2.0 | 1.0 |
| Hopane | NA | U | 2.0 | 1.0 |
| Moretane | NA | BU | 2.0 | 1.0 |
| 17a(H),21b(H)-30-Homohopane-22S | NA | U | 2.0 | 1.0 |
| 17a(H),21b(H)-30-Homohopane-22R | NA | U | 2.0 | 1.0 |
| Gammacerane | NA | U | 2.0 | 1.0 |
| 17b(H),21b(H)-Hopane | NA | U | 2.0 | 1.0 |
| 30-Homomoretane-22R | NA | U | 2.0 | 1.0 |
| Hop-22(29)-ene | NA | U | 2.0 | 1.0 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MBS2 | Matrix: | NAPL |
| File ID: | E122020.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH051212-MB2 | Injection Volume (µl): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----|-----|----------|
| 30,31-Bishomohopane-22S | NA | U | 2.0 | 1.0 |
| 30,31-Bishomohopane-22R | NA | U | 2.0 | 1.0 |
| 30,31-Bishomomorethane-22R | NA | U | 2.0 | 1.0 |
| 17b(H),21b(H)-Homohopane-22R | NA | U | 2.0 | 1.0 |
| 30,31,32-Trishomohopane-22S | NA | U | 2.0 | 1.0 |
| 30,31,32-Trishomohopane-22R | NA | U | 2.0 | 1.0 |
| 30,31,32,33-Tetrakishomohopane-22S | NA | U | 2.0 | 1.0 |
| 30,31,32,33-Tetrakishomohopane-22R | NA | U | 2.0 | 1.0 |
| 30,31,32,33,34-Pentakishomohopane-22S | NA | U | 2.0 | 1.0 |
| 30,31,32,33,34-Pentakishomohopane-22f | NA | U | 2.0 | 1.0 |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | NA | U | 2.0 | 1.0 |
| C21 14b(H),17b(H)-Sterane | NA | U | 2.0 | 1.0 |
| C22 14b(H),17b(H)-Sterane | NA | U | 2.0 | 1.0 |
| C27 13b(H),17a(H)-20S-Diasterane | NA | U | 2.0 | 1.0 |
| C27 13b(H),17a(H)-20R-Diasterane | NA | U | 2.0 | 1.0 |
| C27 13a(H),17b(H)-20S-Diasterane | NA | U | 2.0 | 1.0 |
| C27 13a(H),17b(H)-20R-Diasterane | NA | U | 2.0 | 1.0 |
| C28 13b(H),17a(H)-20S-Diasterane | NA | U | 2.0 | 1.0 |
| C28 13a(H),17b(H)-20S-Diasterane | NA | U | 2.0 | 1.0 |
| C28 13a(H),17b(H)-20R-Diasterane | NA | U | 2.0 | 1.0 |
| C27 14a(H),17a(H)-20S-Cholestane | NA | U | 2.0 | 1.0 |
| C27 14b(H),17b(H)-20R-Cholestane | NA | U | 2.0 | 1.0 |
| C27 14b(H),17b(H)-20S-Cholestane | NA | U | 2.0 | 1.0 |
| C27 14a(H),17a(H)-20R-Cholestane | NA | U | 2.0 | 1.0 |
| C29 13b(H),17a(H)-20S-Diasterane | NA | U | 2.0 | 1.0 |
| C29 13b(H),17a(H)-20R-Diasterane | NA | U | 2.0 | 1.0 |
| C28 14a(H),17a(H)-20S-Methylcholestane | NA | U | 2.0 | 1.0 |
| C28 14b(H),17b(H)-20R-Methylcholestane | NA | U | 2.0 | 1.0 |
| C28 14b(H),17b(H)-20S-Methylcholestane | NA | U | 2.0 | 1.0 |
| C28 14a(H),17a(H)-20R-Methylcholestane | NA | U | 2.0 | 1.0 |
| C29 14a(H),17a(H)-20S-Ethylcholestane | NA | U | 2.0 | 1.0 |
| C29 14b(H),17b(H)-20R-Ethylcholestane | NA | U | 2.0 | 1.0 |
| C29 14b(H),17b(H)-20S-Ethylcholestane | NA | U | 2.0 | 1.0 |
| C29 14a(H),17a(H)-20R-Ethylcholestane | NA | U | 2.0 | 1.0 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051212-MBS2 | | |
| File ID: | E122020.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | CH051212-MB2 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Phenanthrene-d10 | 89 | 50 - 120 | | Limits |
| Perylene-d12 | 89 | 50 - 120 | | |
| NA - Not applicable B - Analyte detected in the Blank J - Estimated value; detected between the RL and DL U - Analyte not detected above DL. D - Analyte reported from a diluted extract. E - Estimate, result detected above calibration range. I - Concentration/Peak ID uncertain due to potential interference. RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration. EDL - Estimated detection limit is 50% of RL | | | | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-107D-120605**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051208-01 | | |
| File ID: | E122021.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 2.00 |
| Batch QC: | CH051212-MB2 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------------|-----------------------|-----|-------|----------|
| Terpanes | | | | |
| C19 Tricyclic terpane | 676 | 1.9 | 0.950 | |
| C20 Tricyclic terpane | 198 | 1.9 | 0.950 | |
| C21 Tricyclic terpane | 9.85 | 1.9 | 0.950 | |
| C22 Tricyclic terpane | 7.11 | 1.9 | 0.950 | |
| C23 Tricyclic terpane | U | 1.9 | 0.950 | |
| C24 Tricyclic terpane | U | 1.9 | 0.950 | |
| C25 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C25 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| C26 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C26 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| C24 Tetracyclic terpane | U | 1.9 | 0.950 | |
| C28 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C28 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| C29 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C29 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| 18a(H)-22,29,30-Trisnorhopane - Ts | U | 1.9 | 0.950 | |
| C30 Tricyclic terpane-22S | U | 1.9 | 0.950 | |
| C30 Tricyclic terpane-22R | U | 1.9 | 0.950 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | U | 1.9 | 0.950 | |
| 17b(H)-22,29,30-Trisnorhopane | U | 1.9 | 0.950 | |
| 17a(H)-29,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 1.9 | 0.950 | |
| 17a(H),21b(H)-25-Norhopane | U | 1.9 | 0.950 | |
| 30-Norhopane | 1.18 J | 1.9 | 0.950 | |
| 18a(H)-30-Norneohopane - C29Ts | U | 1.9 | 0.950 | |
| 15a-methyl-17a(H)-27-Norhopane | U | 1.9 | 0.950 | |
| Oleananes | U | 1.9 | 0.950 | |
| Hopane | 1.12 J | 1.9 | 0.950 | |
| Moretane | 1.36 JB | 1.9 | 0.950 | |
| 17a(H),21b(H)-30-Homohopane-22S | U | 1.9 | 0.950 | |
| 17a(H),21b(H)-30-Homohopane-22R | U | 1.9 | 0.950 | |
| Gammacerane | U | 1.9 | 0.950 | |
| 17b(H),21b(H)-Hopane | U | 1.9 | 0.950 | |
| 30-Homomorethane-22R | U | 1.9 | 0.950 | |
| Hop-22(29)-ene | U | 1.9 | 0.950 | |
| 30,31-Bishomohopane-22S | U | 1.9 | 0.950 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-107D-120605**

| | | | |
|----------------|--------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051208-01 | | |
| File ID: | E122021.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 2.00 |
| Batch QC: | CH051212-MB2 | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|-----|-------|----------|
| 30,31-Bishomohopane-22R | U | 1.9 | 0.950 | |
| 30,31-Bishomomorethane-22R | U | 1.9 | 0.950 | |
| 17b(H),21b(H)-Homohopane-22R | U | 1.9 | 0.950 | |
| 30,31,32-Trishomohopane-22S | U | 1.9 | 0.950 | |
| 30,31,32-Trishomohopane-22R | U | 1.9 | 0.950 | |
| 30,31,32,33-Tetrakishomohopane-22S | U | 1.9 | 0.950 | |
| 30,31,32,33-Tetrakishomohopane-22R | U | 1.9 | 0.950 | |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 1.9 | 0.950 | |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 1.9 | 0.950 | |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | 44.3 | 1.9 | 0.950 | |
| C21 14b(H),17b(H)-Sterane | 1,630 | 1.9 | 0.950 | |
| C22 14b(H),17b(H)-Sterane | 32.1 | 1.9 | 0.950 | |
| C27 13b(H),17a(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C27 13b(H),17a(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C27 13a(H),17b(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C27 13a(H),17b(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C28 13b(H),17a(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C28 13a(H),17b(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C27 14a(H),17a(H)-20S-Cholestane | U | 1.9 | 0.950 | |
| C27 14b(H),17b(H)-20R-Cholestane | U | 1.9 | 0.950 | |
| C27 14b(H),17b(H)-20S-Cholestane | U | 1.9 | 0.950 | |
| C27 14a(H),17a(H)-20R-Cholestane | U | 1.9 | 0.950 | |
| C29 13b(H),17a(H)-20S-Diasterane | U | 1.9 | 0.950 | |
| C29 13b(H),17a(H)-20R-Diasterane | U | 1.9 | 0.950 | |
| C28 14a(H),17a(H)-20S-Methylcholestane | U | 1.9 | 0.950 | |
| C28 14b(H),17b(H)-20R-Methylcholestane | U | 1.9 | 0.950 | |
| C28 14b(H),17b(H)-20S-Methylcholestane | U | 1.9 | 0.950 | |
| C28 14a(H),17a(H)-20R-Methylcholestane | U | 1.9 | 0.950 | |
| C29 14a(H),17a(H)-20S-Ethylcholestane | U | 1.9 | 0.950 | |
| C29 14b(H),17b(H)-20R-Ethylcholestane | U | 1.9 | 0.950 | |
| C29 14b(H),17b(H)-20S-Ethylcholestane | U | 1.9 | 0.950 | |
| C29 14a(H),17a(H)-20R-Ethylcholestane | U | 1.9 | 0.950 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-107D-120605**

| | | | |
|----------------|--------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH051208-01 | Matrix: | NAPL |
| File ID: | E122021.D | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH051212-MB2 | Injection Volume (μ l): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---|-----------------------|----------|-----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | | | |
| Phenanthrene-d10 | 96 | 50 - 120 | | Limits |
| Perylene-d12 | 91 | 50 - 120 | | |
| NA - Not applicable B - Analyte detected in the Blank J - Estimated value; detected between the RL and DL. U - Analyte not detected above DL. D - Analyte reported from a diluted extract. E - Estimate, result detected above calibration range. I - Concentration/Peak ID uncertain due to potential interference. RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration. EDL - Estimated detection limit is 50% of RL | | | | |

Appendix F

PCB Concentrations

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|------------------|------------------------------|---------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | EPA 3665/3660 |
| | | Analysis Method: | EPA 8082M |
| Lab ID | UR051207-MBC | | |
| File ID: | A122034.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | 12/19/2005 | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 10000 |
| Instrument: | AMX | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | UR051207-MBC | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------|-----------------------|------|-----|----------|
| PCB AROCLORS: | | | | |
| Aroclor 1016 | U | 10.0 | 5.0 | |
| Aroclor 1221 | U | 10.0 | 5.0 | |
| Aroclor 1232 | U | 10.0 | 5.0 | |
| Aroclor 1242 | U | 10.0 | 5.0 | |
| Aroclor 1248 | U | 10.0 | 5.0 | |
| Aroclor 1254 | U | 10.0 | 5.0 | |
| Aroclor 1260 | U | 10.0 | 5.0 | |
| Aroclor 1262 | U | 10.0 | 5.0 | |
| Aroclor 1268 | U | 10.0 | 5.0 | |

| Extraction Surrogate Recoveries (%) | | Limits |
|-------------------------------------|----|----------|
| Tetrachloro-m-xylene | 76 | 50 - 120 |
| Decachlorobiphenyl | 84 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|------------------|------------------------|---------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | EPA 3665/3660 |
| | | Analysis Method: | EPA 8082M |
| Lab ID | UR051207-MBSC | Matrix: | NAPL |
| File ID: | A122035.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0100 |
| Date Cleanup: | 12/19/2005 | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 10000 |
| Instrument: | AMX | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 2.00 |
| Batch QC: | UR051207-MBC | | |

| Analyte | Concentration (mg/kg) | | RL | EDL | Comments |
|---------------|-----------------------|-----|------|-----|------------|
| PCB AROCLORS: | Spike Amount | | | | % Recovery |
| Aroclor 1016 | 200 | 188 | 10.0 | 5.0 | 94 % |
| Aroclor 1221 | | U | 10.0 | 5.0 | |
| Aroclor 1232 | | U | 10.0 | 5.0 | |
| Aroclor 1242 | | U | 10.0 | 5.0 | |
| Aroclor 1248 | | U | 10.0 | 5.0 | |
| Aroclor 1254 | | U | 10.0 | 5.0 | |
| Aroclor 1260 | 200 | 201 | 10.0 | 5.0 | 101 % |
| Aroclor 1262 | | U | 10.0 | 5.0 | |
| Aroclor 1268 | | U | 10.0 | 5.0 | |

Extraction Surrogate Recoveries (%)

| | | |
|----------------------|----|--------------------|
| Tetrachloro-m-xylene | 81 | Limits 50 - 120 |
| Decachlorobiphenyl | 87 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-105D-112305**

| | | | |
|----------------|------------------|------------------------------|---------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | EPA 3665/3660 |
| | | Analysis Method: | EPA 8082M |
| Lab ID | CH051203-01C | Matrix: | NAPL |
| File ID: | A122036.D | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | 12/19/2005 | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 10000 |
| Instrument: | AMX | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | UR051207-MBC | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------|-----------------------|------|------|----------|
| PCB AROCLORS: | | | | |
| Aroclor 1016 | U | 9.52 | 4.76 | |
| Aroclor 1221 | U | 9.52 | 4.76 | |
| Aroclor 1232 | U | 9.52 | 4.76 | |
| Aroclor 1242 | U | 9.52 | 4.76 | |
| Aroclor 1248 | U | 9.52 | 4.76 | |
| Aroclor 1254 | U | 9.52 | 4.76 | |
| Aroclor 1260 | U | 9.52 | 4.76 | |
| Aroclor 1262 | U | 9.52 | 4.76 | |
| Aroclor 1268 | U | 9.52 | 4.76 | |

Extraction Surrogate Recoveries (%)

| | | |
|----------------------|----|--------------------|
| Tetrachloro-m-xylene | 68 | Limits 50 - 120 |
| Decachlorobiphenyl | 68 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-116BD-112305**

| | | | |
|----------------|------------------|------------------------|---------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | EPA 3665/3660 |
| | | Analysis Method: | EPA 8082M |
| Lab ID | CH051203-02C | | |
| File ID: | A122037.D | Matrix: | NAPL |
| Date Sampled: | 11/23/2005 | Preservation: | None |
| Date Received: | 12/3/2005 | Decanted: | None |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0109 |
| Date Cleanup: | 12/19/2005 | Percent Solid: | NA |
| Date Analyzed: | 12/21/2005 | Extract Volume (µl): | 10000 |
| Instrument: | AMX | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 2.00 |
| Batch QC: | UR051207-MBC | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------|-----------------------|------|------|----------|
| PCB AROCLORS: | | | | |
| Aroclor 1016 | U | 9.17 | 4.58 | |
| Aroclor 1221 | U | 9.17 | 4.58 | |
| Aroclor 1232 | U | 9.17 | 4.58 | |
| Aroclor 1242 | U | 9.17 | 4.58 | |
| Aroclor 1248 | U | 9.17 | 4.58 | |
| Aroclor 1254 | U | 9.17 | 4.58 | |
| Aroclor 1260 | U | 9.17 | 4.58 | |
| Aroclor 1262 | U | 9.17 | 4.58 | |
| Aroclor 1268 | U | 9.17 | 4.58 | |

Extraction Surrogate Recoveries (%)

| | | |
|----------------------|----|----------|
| Tetrachloro-m-xylene | 66 | Limits |
| Decachlorobiphenyl | 71 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-102AD-112305**

| | | | |
|----------------|------------------|------------------------------|---------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | EPA 3665/3660 |
| | | Analysis Method: | EPA 8082M |
| Lab ID | CH051203-03C | | |
| File ID: | A122038.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0105 |
| Date Cleanup: | 12/19/2005 | Percent Solid: | 100% |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 10000 |
| Instrument: | AMX | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | UR051207-MBC | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------|-----------------------|------|------|----------|
| PCB AROCLORS: | | | | |
| Aroclor 1016 | U | 9.52 | 4.76 | |
| Aroclor 1221 | U | 9.52 | 4.76 | |
| Aroclor 1232 | U | 9.52 | 4.76 | |
| Aroclor 1242 | U | 9.52 | 4.76 | |
| Aroclor 1248 | U | 9.52 | 4.76 | |
| Aroclor 1254 | U | 9.52 | 4.76 | |
| Aroclor 1260 | U | 9.52 | 4.76 | |
| Aroclor 1262 | U | 9.52 | 4.76 | |
| Aroclor 1268 | U | 9.52 | 4.76 | |

| Extraction Surrogate Recoveries (%) | | Limits |
|-------------------------------------|----|----------|
| Tetrachloro-m-xylene | 69 | 50 - 120 |
| Decachlorobiphenyl | 71 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-112BD-112305**

| | | | |
|----------------|------------------|------------------------------|---------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | EPA 3665/3660 |
| | | Analysis Method: | EPA 8082M |
| Lab ID: | CH051203-04C | | |
| File ID: | A122039.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 11/23/2005 | Decanted: | None |
| Date Received: | 12/3/2005 | | |
| Date Prepared: | 12/7/2005 | Sample Size (g): | 0.0111 |
| Date Cleanup: | 12/19/2005 | Percent Solid: | 100% |
| Date Analyzed: | 12/21/2005 | Extract Volume (μ l): | 10000 |
| Instrument: | AMX | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | UR051207-MBC | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|----------------------|-----------------------|------|-----|----------|
| PCB AROCLORS: | | | | |
| Aroclor 1016 | U | 9.01 | 4.5 | |
| Aroclor 1221 | U | 9.01 | 4.5 | |
| Aroclor 1232 | U | 9.01 | 4.5 | |
| Aroclor 1242 | U | 9.01 | 4.5 | |
| Aroclor 1248 | U | 9.01 | 4.5 | |
| Aroclor 1254 | U | 9.01 | 4.5 | |
| Aroclor 1260 | U | 9.01 | 4.5 | |
| Aroclor 1262 | U | 9.01 | 4.5 | |
| Aroclor 1268 | U | 9.01 | 4.5 | |

Extraction Surrogate Recoveries (%)

| | | |
|----------------------|----|--------------------|
| Tetrachloro-m-xylene | 73 | Limits 50 - 120 |
| Decachlorobiphenyl | 73 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Appendix G

Physical Properties



SAYBOLT LP
400 SWENSON DRIVE
KENILWORTH, NJ 07033
908-245-3100 Telephone
908-245-5828 Facsimile

Fast To The Point

Saybolt LP

Certificate of Analysis

Report Date: 12/13/2005
Job No: 13032-00001705
Client Ref: N/A

Product: NAPL
Location: Meta Environmental Inc.

| Test | Method | Result | Units |
|----------------------------------|-------------|-------------------------------|-----------------------|
| Lab Number: 2005120090-01 | | Sample ID: CH051203-01 | |
| Date Sampled 12/5/2005 | | | |
| Viscosity, Kin @ 122.0°F | ASTM D-445 | 181.6 | cSt |
| Viscosity, SFS @ 122.0°F | ASTM D-2161 | 86.4 | Sec |
| Interfacial Tension | ASTM D-971 | 30.2 | Dynes/cm ² |
| API Gravity, @ 60°F | ASTM D-4052 | see note* | @ 60 °F |
| Density | ASTM D-4052 | see note* | @ 60 °F |
| Specific Gravity | ASTM D-4052 | see note* | @ 60 °F |
| Lab Number: 2005120090-02 | | Sample ID: CH051203-02 | |
| Date Sampled 12/5/2005 | | | |
| Viscosity, Kin @ 122.0°F | ASTM D-445 | 27.44 | cSt |
| Viscosity, SFS @ 122.0°F | ASTM D-2161 | N/A | Sec |
| Interfacial Tension | ASTM D-971 | 18.0 | Dynes/cm ² |
| API Gravity, @ 60°F | ASTM D-4052 | -6.2 | @ 60 °F |
| Density | ASTM D-4052 | N/A | @ 60 °F |
| Specific Gravity | ASTM D-4052 | 1.1293 | @ 60 °F |
| Lab Number: 2005120090-03 | | Sample ID: CH051203-03 | |
| Date Sampled 12/5/2005 | | | |
| Viscosity, Kin @ 122.0°F | ASTM D-445 | 14.31 | cSt |
| Viscosity, SFS @ 122.0°F | ASTM D-2161 | N/A | Sec |
| Interfacial Tension | ASTM D-971 | 25.0 | Dynes/cm ² |
| API Gravity, @ 60°F | ASTM D-4052 | -2.32 | @ 60 °F |
| Density | ASTM D-4052 | N/A | @ 60 °F |
| Specific Gravity | ASTM D-4052 | 1.0951 | @ 60 °F |

Approved By:

Denise Apruzzi
Laboratory Manager

Issuer warrants that it has exercised due diligence and care with respect to the information and professional judgments embodied in this report. This report reflects only the findings at the time and place of inspection and testing. Issuer expressly disclaims any further indemnity of any kind. This report is not a guarantee or policy of insurance with respect to the goods or the contractual performance of any party. Any person relying upon this report should be aware that issuer's activities are carried out under their general terms and conditions.

"Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D 3244 (except for analysis of RFG), IP 367 and appendix E of IP standard methods for analysis testing with respect to the utilization of test data to determine conformance with specifications."



SAYBOLT LP
400 SWENSON DRIVE
KENILWORTH, NJ 07033
908-245-3100 Telephone
908-245-5828 Facsimile

Fast To The Point

Saybolt LP

Certificate of Analysis

Report Date: 12/13/2005
Job No: 13032-00001705
Client Ref: N/A

Product: NAPL
Location: Meta Environmental Inc.

| Test | Method | Result | Units |
|----------------------------------|-------------|-------------------------------|-----------------------|
| Lab Number: 2005120090-04 | | Sample ID: CH051203-04 | |
| Date Sampled 12/5/2005 | | | |
| Viscosity, Kin @ 122.0°F | ASTM D-445 | 61.23 | cSt |
| Viscosity, SFS @ 122.0°F | ASTM D-2161 | 31.1 | Sec |
| Interfacial Tension | ASTM D-971 | 27.5 | Dynes/cm ² |
| API Gravity, @ 60°F | ASTM D-4052 | -4.81 | @ 60 °F |
| Density | ASTM D-4052 | N/A | @ 60 °F |
| Specific Gravity | ASTM D-4052 | 1.1168 | @ 60 °F |

Note - This sample was thick with what appeared to be a sediment like material. An API Gravity reading could not be achieved on this particular sample

Approved By:

Denise Apruzzi
Laboratory Manager

Issuer warrants that it has exercised due diligence and care with respect to the information and professional judgments embodied in this report. This report reflects only the findings at the time and place of inspection and testing. Issuer expressly disclaims any further indemnity of any kind. This report is not a guarantee or policy of insurance with respect to the goods or the contractual performance of any party. Any person relying upon this report should be aware that issuer's activities are carried out under their general terms and conditions.

"Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D 3244 (except for analysis of RFG), IP 367 and appendix E of IP standard methods for analysis testing with respect to the utilization of test data to determine conformance with specifications."



SAYBOLT LP
400 SWENSON DRIVE
KENILWORTH, NJ 07033
908-245-3100 Telephone
908-245-5828 Facsimile

Fast To The Point

Saybolt LP

Certificate of Analysis

Report Date: 12/15/2005

Job No: 13032-00001718

Lab Number: 2005120165-01

Client Ref: N/A

Date Sampled: 12/12/2005

Product: NAPL

Sample ID: CH051208-01

Location: Meta Environmental

| Test | Method | Result | Units |
|--------------------------|-------------|--------|-----------------------|
| Viscosity, Kin @ 122.0°F | ASTM D-445 | 3.490 | cSt |
| Viscosity, SFS @ 122.0°F | ASTM D-2161 | n/a | Sec |
| Interfacial Tension | ASTM D-971 | 8.2 | Dynes/cm ² |
| API Gravity, @ 60°F | ASTM D-4052 | 3.15 | @ 60 °F |
| Density | ASTM D-4052 | 1049.8 | @ 60 °F |
| Specific Gravity | ASTM D-4052 | 1.0505 | @ 60 °F |

Approved By:

Denise Apruzzi
Laboratory Manager

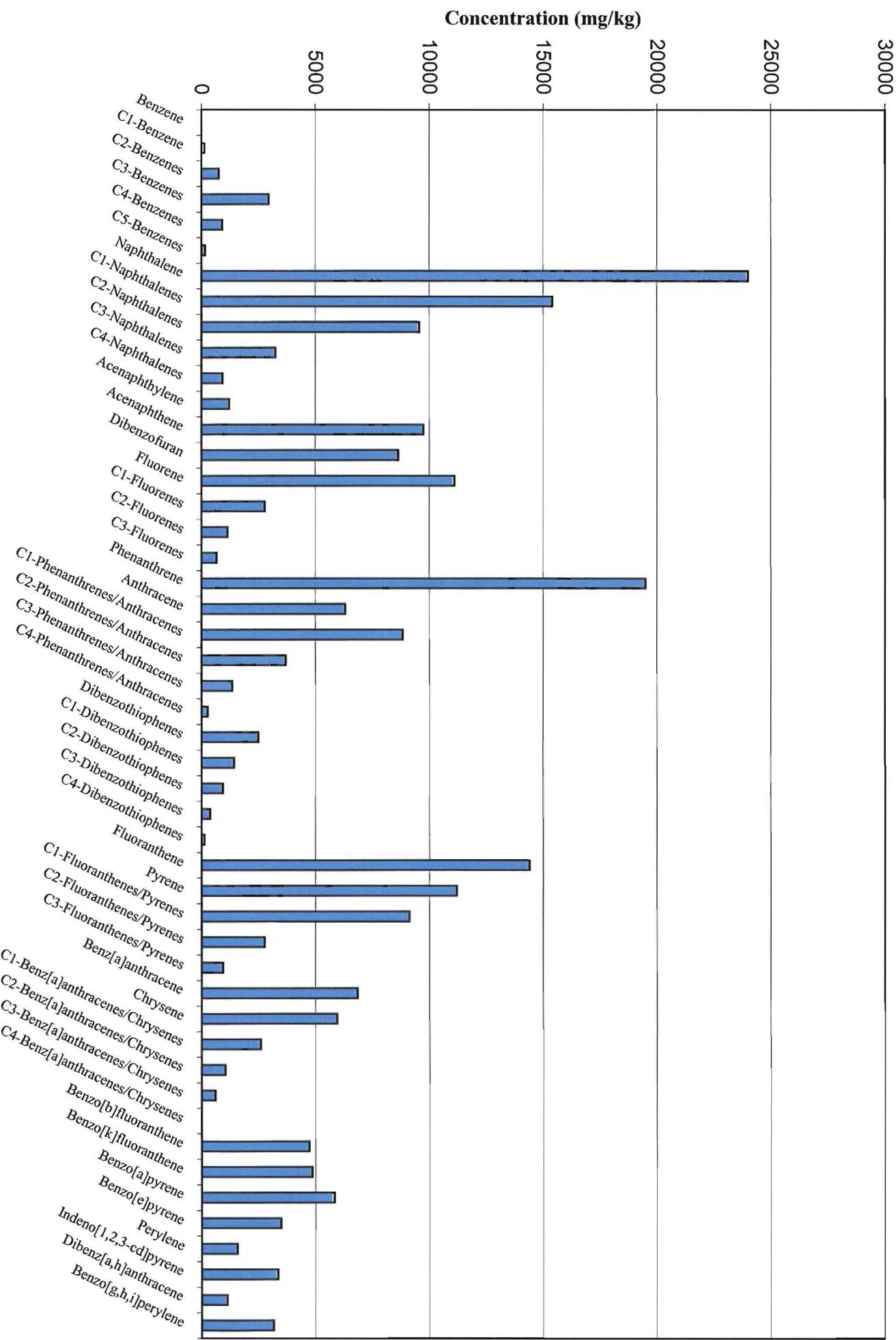
Issuer warrants that it has exercised due diligence and care with respect to the information and professional judgments embodied in this report. This report reflects only the findings at the time and place of inspection and testing. Issuer expressly disclaims any further indemnity of any kind. This report is not a guarantee or policy of insurance with respect to the goods or the contractual performance of any party. Any person relying upon this report should be aware that issuer's activities are carried out under their general terms and conditions.

"Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D 3244 (except for analysis of RFG), IP 367 and appendix E of IP standard methods for analysis testing with respect to the utilization of test data to determine conformance with specifications"

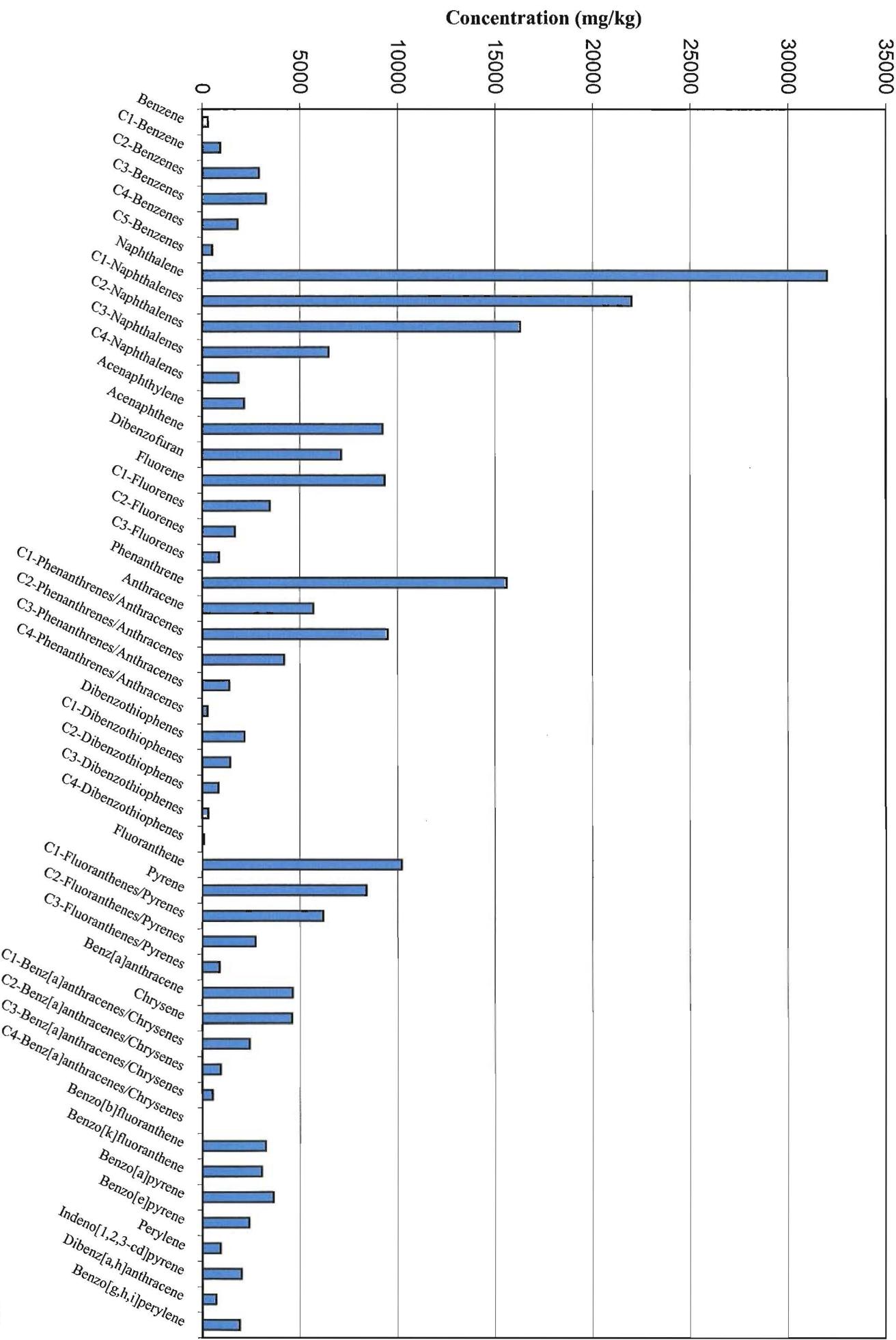
Appendix H

MAH/PAH Histograms

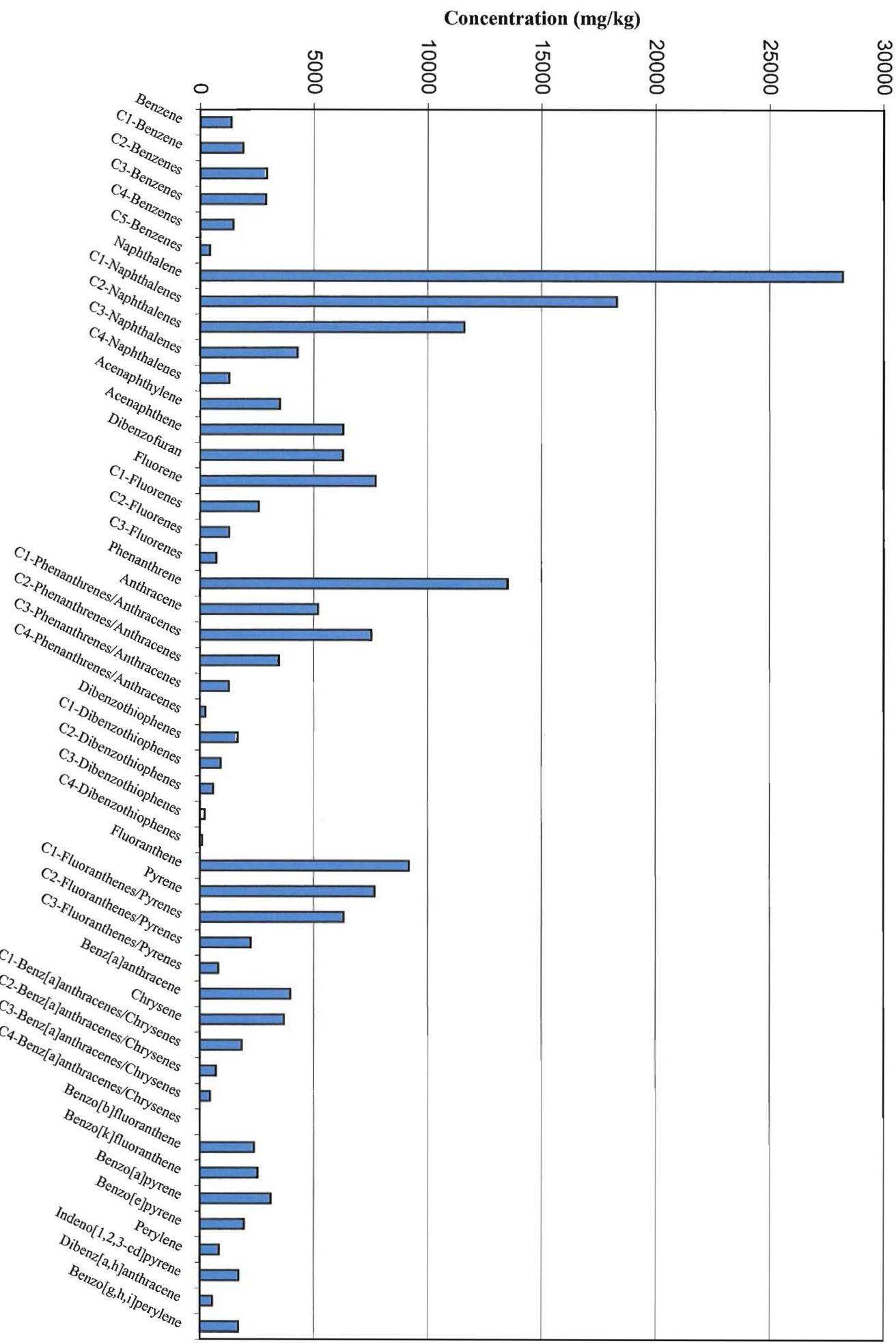
MW-105-112305



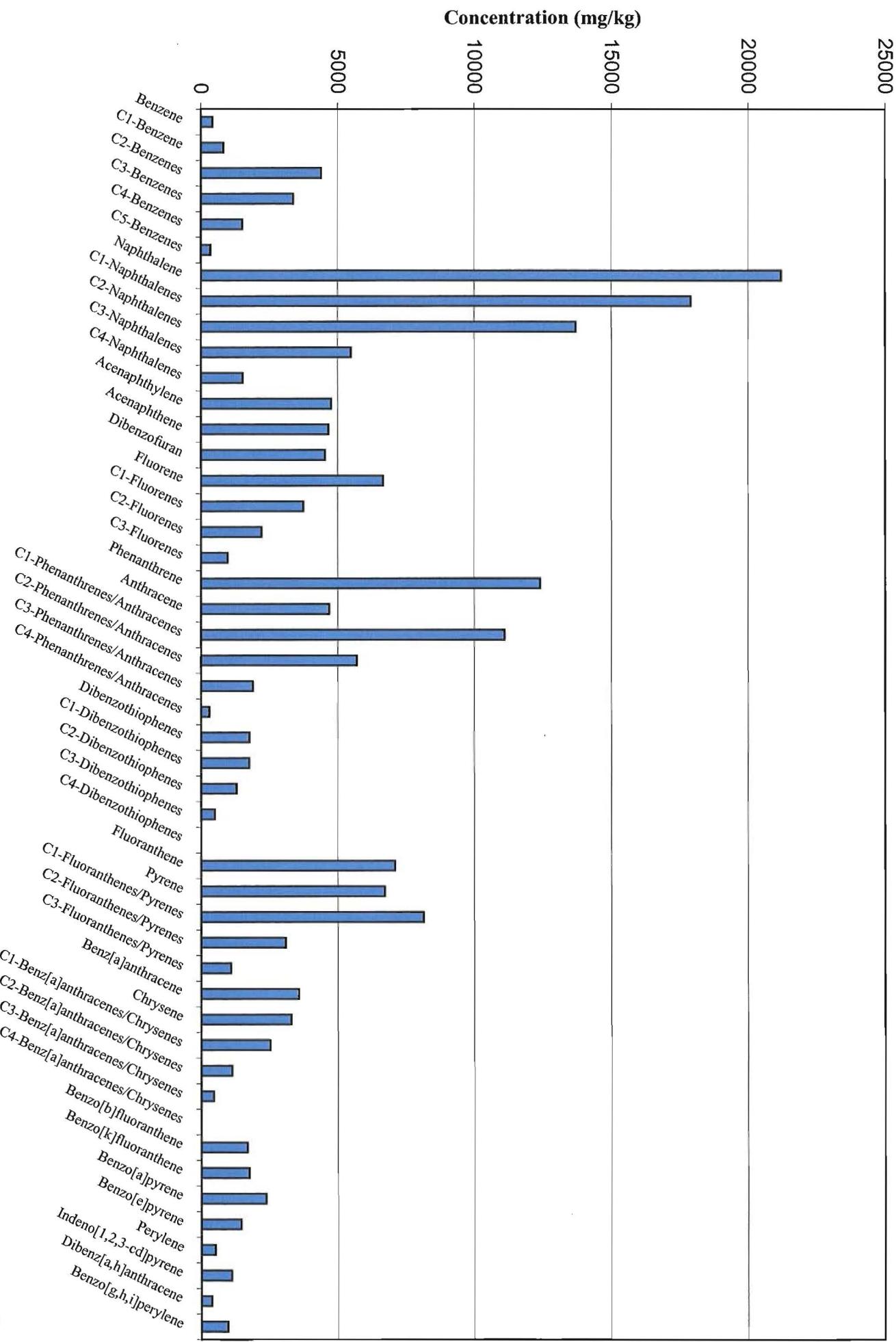
MW-116BD-112305



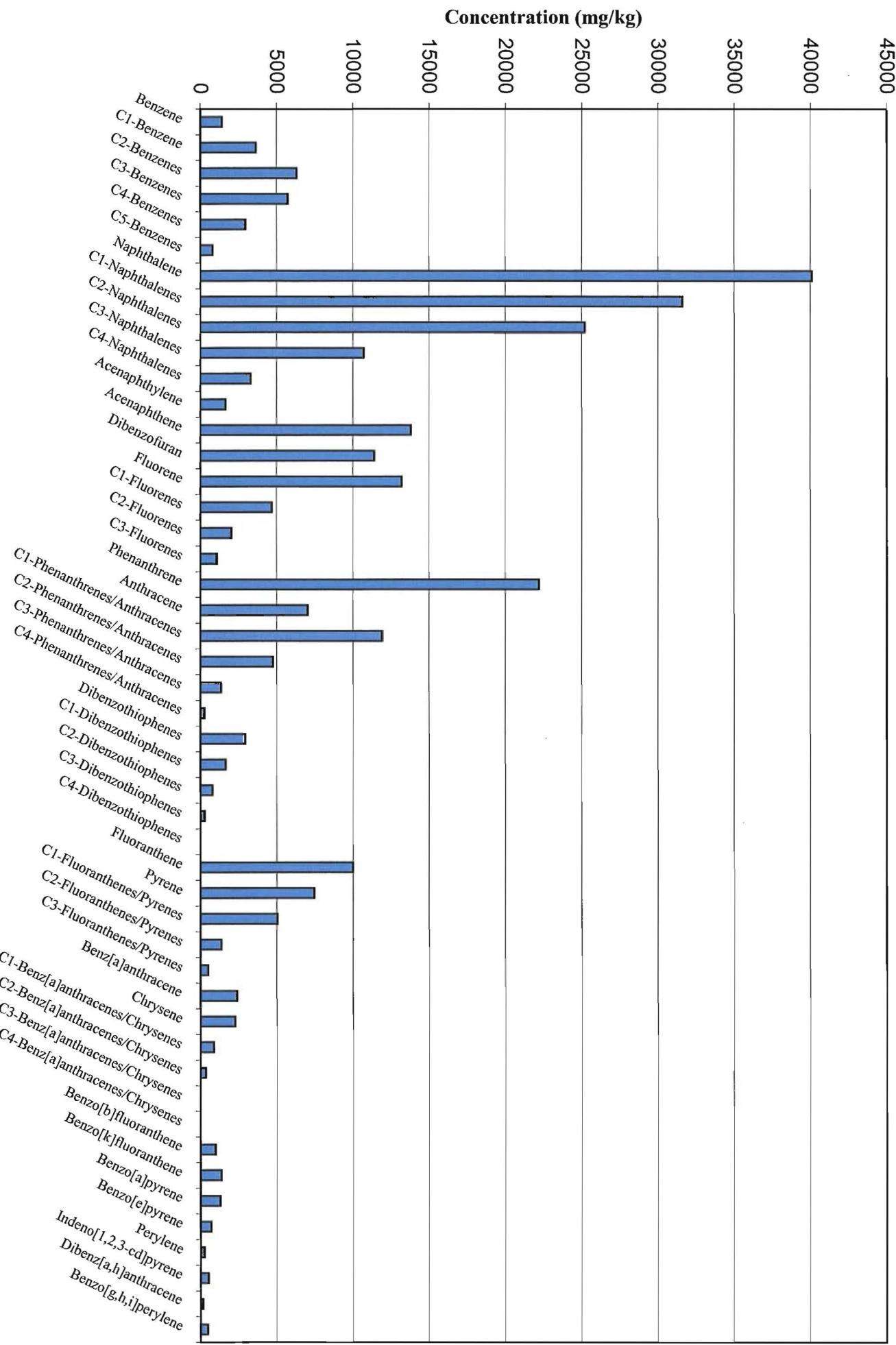
MW-102AD-112305



MW-112BD-112305



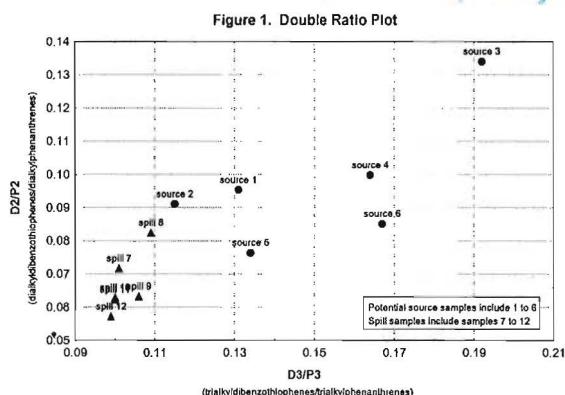
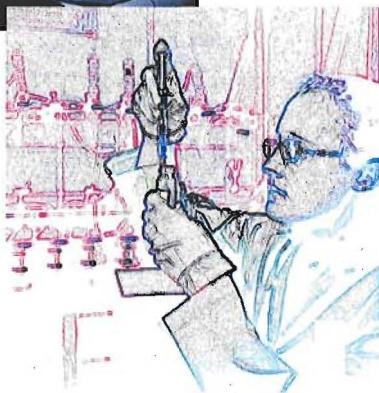
MW-107D-120605



Environmental Forensic Report

Honeywell Quanta

SDG: CH060526



Report To:

CH2M Hill
1700 Market Street
Suite 1600
Philadelphia, PA 19103

Report By:

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

June 20, 2006

Identifying and allocating sources of pollutants in complex environments.

Final Laboratory Report

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

Phone: 617-923-4662
Fax: 617-923-4610
E-Mail meta@metaenv.com

Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and Quality Assurance Officer, as verified by the following signatures.


Raymond Siegener, Ph.D.
Senior Chemist

June 20, 2006
Date


David M. Mauro
Senior Scientist, Quality Assurance Officer

6/20/06
Date

Sample Delivery Group Narrative

Project: Honeywell Quanta
CH2M Hill
1700 Market Street, Suite 1600
Philadelphia, PA 19103

Report Contact: Ms. Jennifer Simms

Dates of Receipt: May 26, 2006

Sample Summary: The sample received for this project is summarized in the attached sample login forms.

META Project Number: C01007

Chain of Custody

The samples were received in good condition. The internal temperature of the shipment containers were as follows:

Sample received: 05/26/06 12.4°C

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized one month after the release of this data report. Sample disposal will be documented.

Methods

The NAPL sample was prepared by waste dilution (EPA 3580) using dichloromethane (DCM). Separate extracts were prepared for PCB/Biomarker and Semivolatile Organics analysis. The extracts were spiked with internal standard and analyzed by GC/FID (EPA 8100 mod.) for fingerprint, GC/MS (EPA 8270 mod.) for Semivolatile Organics, and GC/MS/SIM (EPA 8270 mod.) for petroleum biomarkers. For PCBs analysis, an aliquot of the waste dilution extract was solvent exchanged to hexane and then acid cleaned (EPA 3665) and sulfur cleaned (EPA 3660) prior to analysis by GC/ECD (EPA 8082 mod.). Samples analyzed by subcontracting laboratories for VOCs (EPA 8260), Priority Pollutant Metals, and Physical Properties were prepared according to the methods indicated on the attached laboratory reports (Appendix D and Appendix G).

Results

Sample results are presented in summary forms (CLP Form 1 equivalent) which follow this narrative.

Quality Control

Analyte Flags

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." Undetected analytes were reported as null and flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

Holding Times

The sample was extracted within holding times. The sample and extracts were stored at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ prior to extraction and analysis. The extracts were analyzed within 40 days of sample preparation.

Surrogate Spikes

Extraction surrogates were added to all samples prior to extraction. All surrogate compounds were recovered within the 50%-120% acceptable criterion.

Blanks

No target analytes were detected in the blanks.

Blank Spikes

A Blank Spike sample was extracted with each NAPL batch. All spiked compounds were recovered within criteria (50% - 120%) except 3-nitroanaline (145%), 4-nitroanaline (124%), 4,6-dintro-2-methylphenol (122%), carbazole (128%), butylbenzyl phthalate (122%), and bis-(2-ethylhexyl) phthalate (126%).

Duplicates

A duplicate sample was prepared and analyzed. Duplicate recoveries were within acceptability criteria for all detected analytes (RPD < 50%).

Internal Standards

Internal standards were recovered within acceptable QC limits (50%-200%) relative to the continuing calibration standards.

Interpretation

MW-7L-052406

Sample *MW-7L-052406* was a mixture of LNAPL with some water. All analyses were performed on the NAPL layer.

MW-7L-052406 contained an unknown, hydrocarbon based material. This material was characterized by an unresolved complex mixture (UCM or "hump") that eluted between 23 minutes (C15-pentadecane) and 34 minutes (C22 – docosane), with a maximum at 27 minutes (C17- heptadecane) (GC/FID Fingerprint – Appendix B). The material was also characterized by the presence of low level sterane and terpane biomarkers (Appendix E) and sesquiterpanes (EICPs - Appendix I), which indicate either a petrogenic source for this material, or the presence of other petrogenic material. There were no n-alkanes or isoprenoids detected; the only semivolatile organic compounds (SVOCs – Appendix C) detected were the polycyclic aromatic hydrocarbons (PAHs) fluoranthene, pyrene, and C1-alkyl fluoranthenes/pyrenes.

Using the full-scan GC/MS data, an attempt was made to determine a general composition of the peaks making up the UCM. Mass spectra generated by taking scans of a number of the more distinct peaks present in the UCM were searched against the NIST Mass Spectral Library present on the instrument data system. The library search results indicate that the material present is a complex mixture of branched alkylbenzenes (BABs). BABs are a type of synthetic lubricant that can also be used in certain applications, as a refrigerant (1,2). In the past, sulfonated BABs have

been used as detergents; although they have been replaced by linear alkylbenzene sulfonates (LASs).

Definitions

Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remain following coal tar distillation.

References

- 1) Páramo, R., Zouine, M., Sobrón, F., and Casanova, C. "Saturated heat capacities of some linear and branched alkylbenzenes between (332 and 401) K." J. Chem. Eng. Data, 51: 123-126, 2006.
- 2) Short, G.D., and Rajewski, T. E. " Refrigeration lubricants – current practice and future development." CPI Engineering Services, Inc., 1996.

Table 1. Selected Source and Weathering Ratios

| | Fl/Py | D/F | C17/Pris | C18/Phy | Pris/Phy | C3D/C3PA | C2D/C2PA | BF/MP |
|-----------------------|-------|-----|----------|---------|----------|----------|----------|-------|
| MW-7L-05-24-06 | 0.886 | NC | NC | NC | NC | NC | NC | NC |

Ratios:

| | |
|----------|---|
| Fl/Py | fluoranthene/pyrene |
| D/F | dibenzofuran/fluorene |
| C17/Pris | heptadecane/pristane |
| C18/Phy | octadecane/phytane |
| Pris/Phy | pristane/phytane |
| C3D/C3PA | trialkyldibenzothiophenes/trialkylphenanthrenes/anthracenes |
| C2D/C2PA | dialkyldibenzothiophenes/dialkylphenanthrenes/anthracenes |
| BF/MP | benzofluorennes/methylpyrenes |
| NC | Not Calculatable |

Appendix A

Chains of Custody

META Environmental, Inc.

Sample Receipt Log

| Lab ID | Field ID | Matrix | Prep Method | Cleanup Method | Analysis Method | Date Sampled | Date Received | Project # | Container | Comments | Client Name | Project Name |
|----------------|--------------|--------|-------------|----------------|---------------------|--------------|---------------|-----------|------------|--|-------------|--------------------|
| CH060526-01a.b | MW-7L-052406 | NAPL | 2512 | 3004/3005 | 4007/4011/4013/4014 | 5/24/2006 | 5/26/2006 | C01007 | 2 x 1L jar | Send out for Metals, 8260, physical properties | CH2MHill | Honeywell - Quanta |

Logged By: ASDate: 5/30/06Reviewed By: MLDate: 5/30/06

Lancaster Laboratories META Environment
425 New Holland Pike, PO Box 12425
Lancaster, PA 17603-2425
17-650-2300

49 Cleverdon St.
Watertown, MA 02472

Honeywell

Chain Of Custody / Analysis Request

AESI Ref: 3844941045

COG #: 30916-05261000

Lab Use Only

Lab Proj #

Lab ID: LU

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|----------------|-----------------|---------------------------------------|-------------|---|---------------|---|------------|-------------------------|---|------|-------|------|-------------------|---------------------|----------------------|--------|---------------------|-----------------|------------------|----------------|--|---|
| | | | | Privileged & Confidential | | | | Site Name: Quanta Resources Superfund Site; Edgewater, New Jersey | | | | | | | | | | | | | | | | |
| | | | | EDD To: | | Elizabeth.Garland@ch2m.com; Amy.Klepper@ch2m.com; Amini.Boston@ch2m.com | | Location of Site: NAPL Sampling [Put Field Activity Name Here] | | | | | | | | | | | | | | | | |
| Client Contact: (name, co., address) <u>Ms. Amini Boston/CH2M HILL</u> 9 Cherry Hill Road, Suite 200 Parsippany, NJ 07054 73-316-9300 X 4537; 267-675-4540 (fax) | | | | Sampler: Austin Hareclerode/CH2M HILL | | P O # | | Preservative | | PAGE 1 of 1 | | | | | | | | | | | | | | |
| | | | | Analysis Turnaround Time: 10 | | | | 3 | 9 | 7 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | 8 | 9 | PAGE 1 of 1 | | | |
| | | | | Standard - Y | | | | | | | | | | | | | | | | | | | JOB NO. | |
| | | | | Rush Charges Authorized for - | | | | | | | | | | | | | | | | | | | | |
| | | | | 2 weeks - | | | | | | | | | | | | | | | | | | | | |
| | | | | 1 week - | | | | | | | | | | | | | | | | | | | | |
| | | | | Next Day - | | | | | | | | | | | | | | | | | | | | |
| Sample Identification | | | | Sample Date | Sample Time | Sample Type | Sample Matrix | Sample Purpose | # of Cont. | Field Collected Sample? | | VOCs | SVOCs | PCBs | Bioassay Analysis | Petrogenic Analysis | Fingerprint Analysis | Metals | Interfacial Tension | Surface Tension | Specific Gravity | Density | Viscosity | What is in the Text File? Mouse over here. |
| Location ID | Start Depth (ft) | End Depth (ft) | Field Sample ID | | | | | | | Units | | | | | | | | | | | | | Written and maintained by AESI (Ver 1.7) 02-01-05 tenebula@hol.com | |
| 1 MW-7 | — | MW-7L-052604 | 5/24/00 1135 | NAPL | NAPL | Reg 2 | E | N | * | X | X | X | X | X | X | X | X | X | X | X | X | C4H06052604a.b | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| .1 | | | | | | | | | | | | | | | | | | | | | | | | |
| .2 | | | | | | | | | | | | | | | | | | | | | | | | |

Requested analyses per contractual agreement

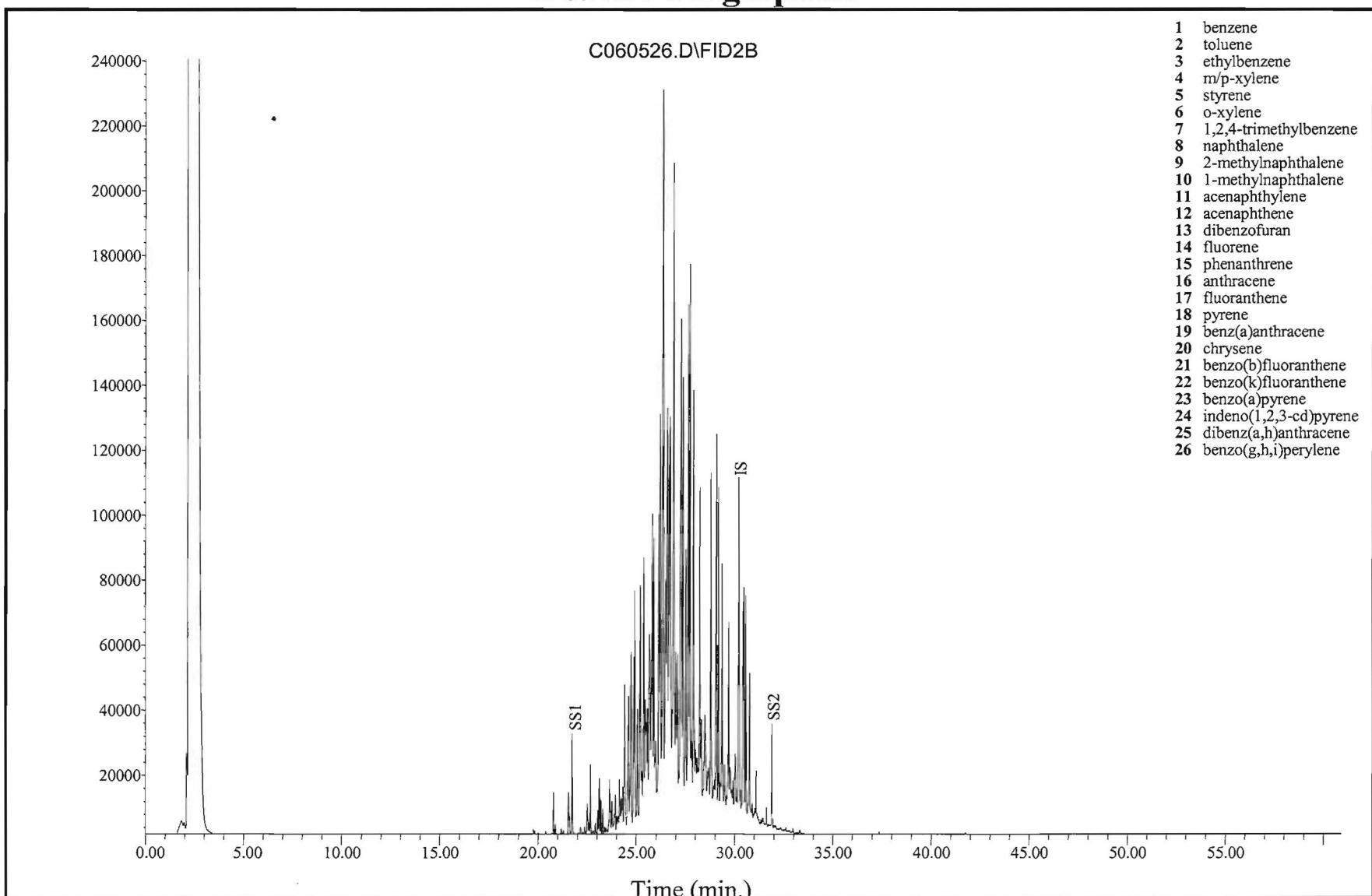
| | | | | | | | | |
|---|-----------|--------------|-------------|-----------------|-----------|--------|--------------|----------------------|
| Simplifed by <i>Austin Hareclerode</i> | Company | C2M Hill | Received by | META 5/26/00 | Company | Good | Condition | Custody Seals Intact |
| | Date/Time | 5/25/00 1200 | | | Date/Time | 2:50pm | Cooler Temp. | |
| Simplifed by | Company | | Received by | | Company | | Condition | Custody Seals Intact |
| | Date/Time | | | | Date/Time | | Cooler Temp. | |

Reservaties: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify): ICE

Appendix B

GC/FID Fingerprints

GC/FID Fingerprint



IS - *o*-terphenyl

SS1 - 2-fluorobiphenyl

SS2 - 5*a*-androstane

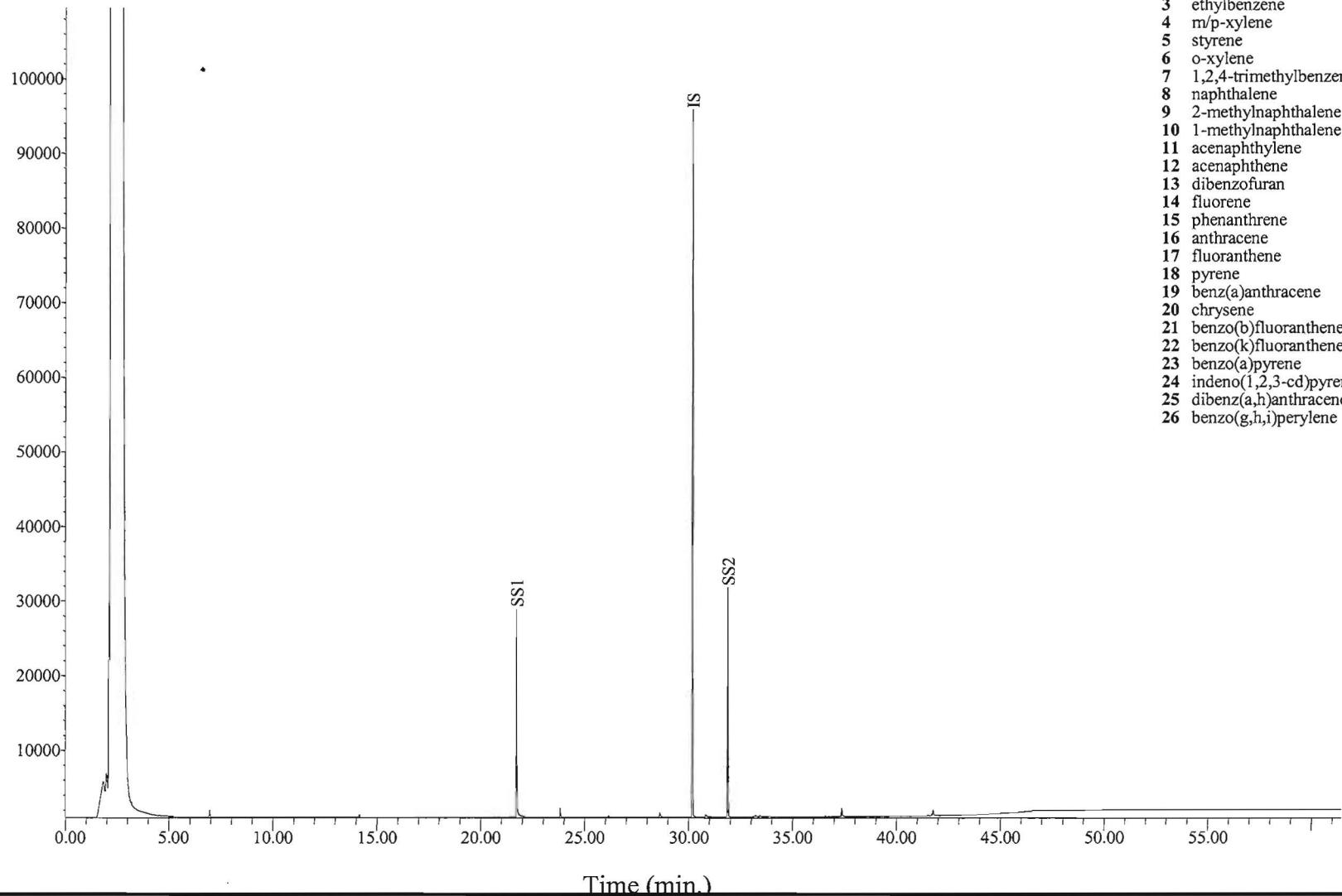
Field ID: MW-7L-052406

Laboratory ID: CH060526-01b

Method: EPA 8100 mod.

GC/FID Fingerprint

C060525.D\FID2B



IS – *o*-terphenyl
SS1 – 2-fluorobiphenyl
SS2 – 5*a*-androstane

Field ID: Method Blank
Laboratory ID: CH060531-MB
Method: EPA 8100 mod.

Appendix C

Semivolatile Concentrations

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-7L-052406**

| | | | |
|----------------|--------------------|------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060526-01B-V | | |
| File ID: | D061514.D | Matrix: | NAPL |
| Date Sampled: | 5/24/2006 | Preservation: | None |
| Date Received: | 5/26/2006 | Decanted: | None |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (µl): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH060531-MB-V | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|------|----------|
| MAH & PAH COMPOUNDS: | | | | |
| Pyridine | U | 183 | 91.5 | |
| N-nitrosodimethylamine | U | 183 | 91.5 | |
| Phenol | U | 183 | 91.5 | |
| bis(2-Chloroethyl)ether | U | 183 | 91.5 | |
| Aniline | U | 183 | 91.5 | |
| 2-Chlorophenol | U | 183 | 91.5 | |
| 1,3-Dichlorobenzene | U | 183 | 91.5 | |
| 1,4-Dichlorobenzene | U | 183 | 91.5 | |
| Benzyl Alcohol | U | 183 | 91.5 | |
| 2-Methylphenol (m-cresol) | U | 183 | 91.5 | |
| 1,2-Dichlorobenzene | U | 183 | 91.5 | |
| 3,4-Methylphenol (o,p-cresol) | U | 183 | 91.5 | |
| bis(2-chloroisopropyl)ether | U | 183 | 91.5 | |
| N-nitroso-di-n-propylamine | U | 183 | 91.5 | |
| Hexachloroethane | U | 183 | 91.5 | |
| Nitrobenzene | U | 183 | 91.5 | |
| Isophorone | U | 183 | 91.5 | |
| 2-Nitrophenol | U | 183 | 91.5 | |
| 2,4-Dimethylphenol | U | 183 | 91.5 | |
| bis(2-Chloroethoxy)methane | U | 183 | 91.5 | |
| 2,6-Dichlorophenol | U | 183 | 91.5 | |
| 1,2,4-Trichlorobenzene | U | 183 | 91.5 | |
| Naphthalene | U | 183 | 91.5 | |
| C1-Naphthalenes | U | 183 | 91.5 | |
| C2-Naphthalenes | U | 183 | 91.5 | |
| C3-Naphthalenes | U | 183 | 91.5 | |
| C4-Naphthalenes | U | 183 | 91.5 | |
| 2,4-Dichlorophenol | U | 183 | 91.5 | |
| 4-Chloroaniline | U | 183 | 91.5 | |
| Hexachlorobutadiene | U | 183 | 91.5 | |
| 1,2,3-Trichlorobenzene | U | 183 | 91.5 | |
| 4-Chloro-3-methylphenol | U | 183 | 91.5 | |
| 2-Methylnaphthalene | U | 183 | 91.5 | |
| 1-Methylnaphthalene | U | 183 | 91.5 | |
| Hexachlorocyclopentadiene | U | 183 | 91.5 | |
| 2,4,6-Trichlorophenol | U | 183 | 91.5 | |
| 2,4,5-Trichlorophenol | U | 183 | 91.5 | |
| 2-Choronaphthalene | U | 183 | 91.5 | |
| 2-Nitroaniline | U | 183 | 91.5 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-7L-052406**

| | | | |
|----------------|--------------------|------------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060526-01B-V | | |
| File ID: | D061514.D | Matrix: | NAPL |
| Date Sampled: | 5/24/2006 | Preservation: | None |
| Date Received: | 5/26/2006 | Decanted: | None |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH060531-MB-V | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------|-----------------------|-----|------|----------|
| Dimethylphthalate | U | 183 | 91.5 | |
| Acenaphthylene | U | 183 | 91.5 | |
| Biphenyl | U | 183 | 91.5 | |
| 3-Nitroaniline | U | 183 | 91.5 | |
| Acenaphthene | U | 183 | 91.5 | |
| 2,4-Dinitrophenol | U | 183 | 91.5 | |
| 4-Nitrophenol | U | 183 | 91.5 | |
| Dibenzofuran | U | 183 | 91.5 | |
| 2,3,4,6-Tetrachlorophenol | U | 183 | 91.5 | |
| Diethylphthalate | U | 183 | 91.5 | |
| 4-Chlorophenyl-phenylether | U | 183 | 91.5 | |
| Fluorene | U | 183 | 91.5 | |
| C1-Fluorenes | U | 183 | 91.5 | |
| C2-Fluorenes | U | 183 | 91.5 | |
| C3-Fluorenes | U | 183 | 91.5 | |
| 4-Nitroaniline | U | 183 | 91.5 | |
| 4,6-Dinitro-2-methylphenol | U | 183 | 91.5 | |
| n-Nitrosodiphenylamine | U | 183 | 91.5 | |
| 4-Bromophenyl-phenylether | U | 183 | 91.5 | |
| Hexachlorobenzene | U | 183 | 91.5 | |
| Pentachlorophenol | U | 183 | 91.5 | |
| Phenanthrene | U | 183 | 91.5 | |
| Anthracene | U | 183 | 91.5 | |
| C1-Phenanthrenes/Anthracenes | U | 183 | 91.5 | |
| C2-Phenanthrenes/Anthracenes | U | 183 | 91.5 | |
| C3-Phenanthrenes/Anthracenes | U | 183 | 91.5 | |
| Retene | U | 183 | 91.5 | |
| C4-Phenanthrenes/Anthracenes | U | 183 | 91.5 | |
| Dibenzothiophenes | U | 183 | 91.5 | |
| C1-Dibenzothiophenes | U | 183 | 91.5 | |
| C2-Dibenzothiophenes | U | 183 | 91.5 | |
| C3-Dibenzothiophenes | U | 183 | 91.5 | |
| C4-Dibenzothiophenes | U | 183 | 91.5 | |
| Carbazole | U | 183 | 91.5 | |
| Di-n-butylphthalate | U | 183 | 91.5 | |
| Fluoranthene | 202 | 183 | 91.5 | |
| Pyrene | 228 | 183 | 91.5 | |
| Benzo(b/c)fluorenes | U | 183 | 91.5 | |
| 2-Methylfluorene | U | 183 | 91.5 | |
| 4-Methylfluorene | U | 183 | 91.5 | |
| 1-Methylfluorene | U | 183 | 91.5 | |
| C1-Fluoranthenes/Pyrenes | 112 | J | 183 | 91.5 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-7L-052406**

| | | | |
|----------------|--------------------|------------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060526-01B-V | | |
| File ID: | D061514.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 5/24/2006 | Decanted: | None |
| Date Received: | 5/26/2006 | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH060531-MB-V | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|------|----------|
| C2-Fluoranthenes/Pyrenes | U | 183 | 91.5 | |
| C3-Fluoranthenes/Pyrenes | U | 183 | 91.5 | |
| Butylbenzylphthalate | U | 183 | 91.5 | |
| Benz[a]anthracene | U | 183 | 91.5 | |
| Chrysene | U | 183 | 91.5 | |
| C1-Benz[a]anthracenes/Chrysenes | U | 183 | 91.5 | |
| C2-Benz[a]anthracenes/Chrysenes | U | 183 | 91.5 | |
| C3-Benz[a]anthracenes/Chrysenes | U | 183 | 91.5 | |
| C4-Benz[a]anthracenes/Chrysenes | U | 183 | 91.5 | |
| bis(2-Ethylhexyl)phthalate | U | 183 | 91.5 | |
| Di-n-octylphthalate | U | 183 | 91.5 | |
| Benzo[b]fluoranthene | U | 183 | 91.5 | |
| Benzo[k]fluoranthene | U | 183 | 91.5 | |
| Benzo[a]pyrene | U | 183 | 91.5 | |
| Benzo[e]pyrene | U | 183 | 91.5 | |
| Perylene | U | 183 | 91.5 | |
| Indeno[1,2,3-cd]pyrene | U | 183 | 91.5 | |
| Dibenz[a,h]anthracene | U | 183 | 91.5 | |
| Benzo[g,h,i]perylene | U | 183 | 91.5 | |
| Total PAH (16) | 430 | 183 | 91.5 | |
| Total PAH (42) | 542 | 183 | 91.5 | |

Extraction Surrogate Recoveries (%)

| | | Limits |
|----------------------|----|----------|
| 2-Fluorophenol | 54 | 25 - 121 |
| Phenol-d5 | 50 | 24 - 113 |
| Nitrobenzene-d5 | 95 | 23 - 120 |
| 2-Fluorobiphenyl | 94 | 30 - 115 |
| 2,4,6-Tribromophenol | 34 | 10 - 123 |
| p-Terphenyl-d14 | 98 | 18 - 137 |

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Duplicate of MW-7L-052406**

| | | | |
|----------------|--------------------|------------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060526-01BDUP-V | | |
| File ID: | D061515.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 5/24/2006 | Decanted: | None |
| Date Received: | 5/26/2006 | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH060531-MB-V | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|------|----------|
| MAH & PAH COMPOUNDS: | | | | |
| Pyridine | U | 157 | 78.5 | NA |
| N-nitrosodimethylamine | U | 157 | 78.5 | NA |
| Phenol | U | 157 | 78.5 | NA |
| bis(2-Chloroethyl)ether | U | 157 | 78.5 | NA |
| Aniline | U | 157 | 78.5 | NA |
| 2-Chlorophenol | U | 157 | 78.5 | NA |
| 1,3-Dichlorobenzene | U | 157 | 78.5 | NA |
| 1,4-Dichlorobenzene | U | 157 | 78.5 | NA |
| Benzyl Alcohol | U | 157 | 78.5 | NA |
| 2-Methylphenol (m-cresol) | U | 157 | 78.5 | NA |
| 1,2-Dichlorobenzene | U | 157 | 78.5 | NA |
| 3,4-Methylphenol (o,p-cresol) | U | 157 | 78.5 | NA |
| bis(2-chloroisopropyl)ether | U | 157 | 78.5 | NA |
| N-nitroso-di-n-propylamine | U | 157 | 78.5 | NA |
| Hexachloroethane | U | 157 | 78.5 | NA |
| Nitrobenzene | U | 157 | 78.5 | NA |
| Isophorone | U | 157 | 78.5 | NA |
| 2-Nitrophenol | U | 157 | 78.5 | NA |
| 2,4-Dimethylphenol | U | 157 | 78.5 | NA |
| bis(2-Chloroethoxy)methane | U | 157 | 78.5 | NA |
| 2,6-Dichlorophenol | U | 157 | 78.5 | NA |
| 1,2,4-Trichlorobenzene | U | 157 | 78.5 | NA |
| Naphthalene | U | 157 | 78.5 | NA |
| C1-Naphthalenes | U | 157 | 78.5 | NA |
| C2-Naphthalenes | U | 157 | 78.5 | NA |
| C3-Naphthalenes | U | 157 | 78.5 | NA |
| C4-Naphthalenes | U | 157 | 78.5 | NA |
| 2,4-Dichlorophenol | U | 157 | 78.5 | NA |
| 4-Chloroaniline | U | 157 | 78.5 | NA |
| Hexachlorobutadiene | U | 157 | 78.5 | NA |
| 1,2,3-Trichlorobenzene | U | 157 | 78.5 | NA |
| 4-Chloro-3-methylphenol | U | 157 | 78.5 | NA |
| 2-Methylnaphthalene | U | 157 | 78.5 | NA |
| 1-Methylnaphthalene | U | 157 | 78.5 | NA |
| Hexachlorocyclopentadiene | U | 157 | 78.5 | NA |
| 2,4,6-Trichlorophenol | U | 157 | 78.5 | NA |
| 2,4,5-Trichlorophenol | U | 157 | 78.5 | NA |
| 2-Chloronaphthalene | U | 157 | 78.5 | NA |
| 2-Nitroaniline | U | 157 | 78.5 | NA |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Duplicate of MW-7L-052406**

| | | | |
|----------------|--------------------|------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060526-01BDUP-V | | |
| File ID: | D061515.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 5/24/2006 | Decanted: | None |
| Date Received: | 5/26/2006 | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (µl): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH060531-MB-V | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------|-----------------------|-----|------|----------|
| Dimethylphthalate | U | 157 | 78.5 | NA |
| Acenaphthylene | U | 157 | 78.5 | NA |
| Biphenyl | U | 157 | 78.5 | NA |
| 3-Nitroaniline | U | 157 | 78.5 | NA |
| Acenaphthene | U | 157 | 78.5 | NA |
| 2,4-Dinitrophenol | U | 157 | 78.5 | NA |
| 4-Nitrophenol | U | 157 | 78.5 | NA |
| Dibenzofuran | U | 157 | 78.5 | NA |
| 2,3,4,6-Tetrachlorophenol | U | 157 | 78.5 | NA |
| Diethylphthalate | U | 157 | 78.5 | NA |
| 4-Chlorophenyl-phenylether | U | 157 | 78.5 | NA |
| Fluorene | U | 157 | 78.5 | NA |
| C1-Fluorenes | U | 157 | 78.5 | NA |
| C2-Fluorenes | U | 157 | 78.5 | NA |
| C3-Fluorenes | U | 157 | 78.5 | NA |
| 4-Nitroaniline | U | 157 | 78.5 | NA |
| 4,6-Dinitro-2-methylphenol | U | 157 | 78.5 | NA |
| n-Nitrosodiphenylamine | U | 157 | 78.5 | NA |
| 4-Bromophenyl-phenylether | U | 157 | 78.5 | NA |
| Hexachlorobenzene | U | 157 | 78.5 | NA |
| Pentachlorophenol | U | 157 | 78.5 | NA |
| Phenanthrene | U | 157 | 78.5 | NA |
| Anthracene | U | 157 | 78.5 | NA |
| C1-Phenanthrenes/Anthracenes | U | 157 | 78.5 | NA |
| C2-Phenanthrenes/Anthracenes | U | 157 | 78.5 | NA |
| C3-Phenanthrenes/Anthracenes | U | 157 | 78.5 | NA |
| Retene | U | 157 | 78.5 | NA |
| C4-Phenanthrenes/Anthracenes | U | 157 | 78.5 | NA |
| Dibenzothiophenes | U | 157 | 78.5 | NA |
| C1-Dibenzothiophenes | U | 157 | 78.5 | NA |
| C2-Dibenzothiophenes | U | 157 | 78.5 | NA |
| C3-Dibenzothiophenes | U | 157 | 78.5 | NA |
| C4-Dibenzothiophenes | U | 157 | 78.5 | NA |
| Carbazole | U | 157 | 78.5 | NA |
| Di-n-butylphthalate | U | 157 | 78.5 | NA |
| Fluoranthene | 220 | 157 | 78.5 | 8.5 |
| Pyrene | 254 | 157 | 78.5 | 10.8 |
| Benzo(b/c)fluorenes | U | 157 | 78.5 | NA |
| 2-Methylfluorene | U | 157 | 78.5 | NA |
| 4-Methylfluorene | U | 157 | 78.5 | NA |
| 1-Methylfluorene | U | 157 | 78.5 | NA |
| C1-Fluoranthenes/Pyrenes | 121 | J | 157 | 78.5 |
| | | | | 7.7 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of MW-7L-052406

| | | | |
|----------------|--------------------|------------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060526-01BDUP-V | | |
| File ID: | D061515.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 5/24/2006 | Decanted: | None |
| Date Received: | 5/26/2006 | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH060531-MB-V | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|------|----------|
| C2-Fluoranthenes/Pyrenes | U | 157 | 78.5 | NA |
| C3-Fluoranthenes/Pyrenes | U | 157 | 78.5 | NA |
| Butylbenzylphthalate | U | 157 | 78.5 | NA |
| Benz[a]anthracene | U | 157 | 78.5 | NA |
| Chrysene | U | 157 | 78.5 | NA |
| C1-Benz[a]anthracenes/Chrysenes | U | 157 | 78.5 | NA |
| C2-Benz[a]anthracenes/Chrysenes | U | 157 | 78.5 | NA |
| C3-Benz[a]anthracenes/Chrysenes | U | 157 | 78.5 | NA |
| C4-Benz[a]anthracenes/Chrysenes | U | 157 | 78.5 | NA |
| bis(2-Ethylhexyl)phthalate | U | 157 | 78.5 | NA |
| Di-n-octylphthalate | U | 157 | 78.5 | NA |
| Benzo[b]fluoranthene | U | 157 | 78.5 | NA |
| Benzo[k]fluoranthene | U | 157 | 78.5 | NA |
| Benzo[a]pyrene | U | 157 | 78.5 | NA |
| Benzo[e]pyrene | U | 157 | 78.5 | NA |
| Perylene | U | 157 | 78.5 | NA |
| Indeno[1,2,3-cd]pyrene | U | 157 | 78.5 | NA |
| Dibenz[a,h]anthracene | U | 157 | 78.5 | NA |
| Benzo[g,h,i]perylene | U | 157 | 78.5 | NA |
| Total PAH (16) | 474 | 157 | 78.5 | 9.7 |
| Total PAH (42) | 595 | 157 | 78.5 | 9.3 |

Extraction Surrogate Recoveries (%)

| | | Limits |
|----------------------|----|----------|
| 2-Fluorophenol | 54 | 25 - 121 |
| Phenol-d5 | 51 | 24 - 113 |
| Nitrobenzene-d5 | 95 | 23 - 120 |
| 2-Fluorobiphenyl | 97 | 30 - 115 |
| 2,4,6-Tribromophenol | 33 | 10 - 123 |
| p-Terphenyl-d14 | 99 | 18 - 137 |

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060531-MB-V | | |
| File ID: | D061512.D | Matrix: | NAPL |
| Date Sampled: | NA | Preservation: | None |
| Date Received: | NA | Decanted: | None |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH060531-MB-V | Injection Volume (μ l): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|-----|----------|
| MAH & PAH COMPOUNDS: | | | | |
| Pyridine | U | 200 | 100 | |
| N-nitrosodimethylamine | U | 200 | 100 | |
| Phenol | U | 200 | 100 | |
| bis(2-Chloroethyl)ether | U | 200 | 100 | |
| Aniline | U | 200 | 100 | |
| 2-Chlorophenol | U | 200 | 100 | |
| 1,3-Dichlorobenzene | U | 200 | 100 | |
| 1,4-Dichlorobenzene | U | 200 | 100 | |
| Benzyl Alcohol | U | 200 | 100 | |
| 2-Methylphenol (m-cresol) | U | 200 | 100 | |
| 1,2-Dichlorobenzene | U | 200 | 100 | |
| 3,4-Methylphenol (o,p-cresol) | U | 200 | 100 | |
| bis(2-chloroisopropyl)ether | U | 200 | 100 | |
| N-nitroso-di-n-propylamine | U | 200 | 100 | |
| Hexachloroethane | U | 200 | 100 | |
| Nitrobenzene | U | 200 | 100 | |
| Isophorone | U | 200 | 100 | |
| 2-Nitrophenol | U | 200 | 100 | |
| 2,4-Dimethylphenol | U | 200 | 100 | |
| bis(2-Chloroethoxy)methane | U | 200 | 100 | |
| 2,6-Dichlorophenol | U | 200 | 100 | |
| 1,2,4-Trichlorobenzene | U | 200 | 100 | |
| Naphthalene | U | 200 | 100 | |
| C1-Naphthalenes | U | 200 | 100 | |
| C2-Naphthalenes | U | 200 | 100 | |
| C3-Naphthalenes | U | 200 | 100 | |
| C4-Naphthalenes | U | 200 | 100 | |
| 2,4-Dichlorophenol* | U | 200 | 100 | |
| 4-Chloroaniline | U | 200 | 100 | |
| Hexachlorobutadiene | U | 200 | 100 | |
| 1,2,3-Trichlorobenzene | U | 200 | 100 | |
| 4-Chloro-3-methylphenol | U | 200 | 100 | |
| 2-Methylnaphthalene | U | 200 | 100 | |
| 1-Methylnaphthalene | U | 200 | 100 | |
| Hexachlorocyclopentadiene | U | 200 | 100 | |
| 2,4,6-Trichlorophenol | U | 200 | 100 | |
| 2,4,5-Trichlorophenol | U | 200 | 100 | |
| 2-Chloronaphthalene | U | 200 | 100 | |
| 2-Nitroaniline | U | 200 | 100 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060531-MB-V | | |
| File ID: | D061512.D | Matrix: | NAPL |
| Date Sampled: | NA | Preservation: | None |
| Date Received: | NA | Decanted: | None |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| Batch QC: | CH060531-MB-V | Injection Volume (μ l): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------|-----------------------|-----|-----|----------|
| Dimethylphthalate | U | 200 | 100 | |
| Acenaphthylene | U | 200 | 100 | |
| 3-Nitroaniline | U | 200 | 100 | |
| Acenaphthene | U | 200 | 100 | |
| 2,4-Dinitrophenol | U | 200 | 100 | |
| 4-Nitrophenol | U | 200 | 100 | |
| Dibenzofuran | U | 200 | 100 | |
| 2,3,4,6-Tetrachlorophenol | U | 200 | 100 | |
| Diethylphthalate | U | 200 | 100 | |
| 4-Chlorophenyl-phenylether | U | 200 | 100 | |
| Fluorene | U | 200 | 100 | |
| C1-Fluorenes | U | 200 | 100 | |
| C2-Fluorenes | U | 200 | 100 | |
| C3-Fluorenes | U | 200 | 100 | |
| 4-Nitroaniline | U | 200 | 100 | |
| 4,6-Dinitro-2-methylphenol | U | 200 | 100 | |
| n-Nitrosodiphenylamine | U | 200 | 100 | |
| 4-Bromophenyl-phenylether | U | 200 | 100 | |
| Hexachlorobenzene | U | 200 | 100 | |
| Pentachlorophenol | U | 200 | 100 | |
| Phenanthrene | U | 200 | 100 | |
| Anthracene | U | 200 | 100 | |
| C1-Phenanthrenes/Anthracenes | U | 200 | 100 | |
| C2-Phenanthrenes/Anthracenes | U | 200 | 100 | |
| C3-Phenanthrenes/Anthracenes | U | 200 | 100 | |
| Retene | U | 200 | 100 | |
| C4-Phenanthrenes/Anthracenes | U | 200 | 100 | |
| Dibenzothiophenes | U | 200 | 100 | |
| C1-Dibenzothiophenes | U | 200 | 100 | |
| C2-Dibenzothiophenes | U | 200 | 100 | |
| C3-Dibenzothiophenes | U | 200 | 100 | |
| C4-Dibenzothiophenes | U | 200 | 100 | |
| Carbazole | U | 200 | 100 | |
| Di-n-butylphthalate | U | 200 | 100 | |
| Fluoranthene | U | 200 | 100 | |
| Pyrene | U | 200 | 100 | |
| Benzo(b/c)fluorenes | U | 200 | 100 | |
| 2-Methylfluorene | U | 200 | 100 | |
| 4-Methylfluorene | U | 200 | 100 | |
| 1-Methylfluorene | U | 200 | 100 | |
| C1-Fluoranthenes/Pyrenes | U | 200 | 100 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|--------------------|------------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060531-MB-V | | |
| File ID: | D061512.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH060531-MB-V | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------|-----------------------|-----|-----|----------|
| C2-Fluoranthenes/Pyrenes | U | 200 | 100 | |
| C3-Fluoranthenes/Pyrenes | U | 200 | 100 | |
| Butylbenzylphthalate | U | 200 | 100 | |
| Benz[a]anthracene | U | 200 | 100 | |
| Chrysene | U | 200 | 100 | |
| C1-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | |
| C2-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | |
| C3-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | |
| C4-Benz[a]anthracenes/Chrysenes | U | 200 | 100 | |
| bis(2-Ethylhexyl)phthalate | U | 200 | 100 | |
| Di-n-octylphthalate | U | 200 | 100 | |
| Benzo[b]fluoranthene | U | 200 | 100 | |
| Benzo[k]fluoranthene | U | 200 | 100 | |
| Benzo[a]pyrene | U | 200 | 100 | |
| Benzo[e]pyrene | U | 200 | 100 | |
| Perylene | U | 200 | 100 | |
| Indeno[1,2,3-cd]pyrene | U | 200 | 100 | |
| Dibenz[a,h]anthracene | U | 200 | 100 | |
| Benzo[g,h,i]perylene | U | 200 | 100 | |
| Total PAH (16) | U | 200 | 100 | |
| Total PAH (42) | U | 200 | 100 | |

Extraction Surrogate Recoveries (%)

| | | Limits |
|----------------------|-----|----------|
| 2-Fluorophenol | 60 | 25 - 121 |
| Phenol-d5 | 56 | 24 - 113 |
| Nitrobenzene-d5 | 95 | 23 - 120 |
| 2-Fluorobiphenyl | 92 | 30 - 115 |
| 2,4,6-Tribromophenol | 108 | 10 - 123 |
| p-Terphenyl-d14 * | 101 | 18 - 137 |

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060531-MBS-V | | |
| File ID: | D061513.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH060531-MB-V | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|-------------------------------|-----------------------|-------|-----|------------|
| MAH & PAH COMPOUNDS: | Spike Amount | | | % Recovery |
| Pyridine | 4000 | 2,370 | 200 | 100 |
| N-nitrosodimethylamine | 4000 | 2,630 | 200 | 100 |
| Phenol | 4000 | 2,530 | 200 | 100 |
| bis(2-Chloroethyl)ether | 4000 | 2,330 | 200 | 100 |
| Aniline | 4000 | 2,360 | 200 | 100 |
| 2-Chlorophenol | 4000 | 2,840 | 200 | 100 |
| 1,3-Dichlorobenzene | 4000 | 3,230 | 200 | 100 |
| 1,4-Dichlorobenzene | 4000 | 3,500 | 200 | 100 |
| Benzyl Alcohol | 4000 | 2,800 | 200 | 100 |
| 2-Methylphenol (m-cresol) | 4000 | 2,480 | 200 | 100 |
| 1,2-Dichlorobenzene | 4000 | 3,260 | 200 | 100 |
| 3,4-Methylphenol (o,p-cresol) | 4000 | 2,540 | 200 | 100 |
| bis(2-chloroisopropyl)ether | 4000 | 2,690 | 200 | 100 |
| N-nitroso-di-n-propylamine | 4000 | 2,790 | 200 | 100 |
| Hexachloroethane | 4000 | 2,940 | 200 | 100 |
| Nitrobenzene | 4000 | 4,010 | 200 | 100 |
| Isophorone | 4000 | 3,770 | 200 | 100 |
| 2-Nitrophenol | 4000 | 3,990 | 200 | 100 |
| 2,4-Dimethylphenol | 4000 | 2,400 | 200 | 100 |
| bis(2-Chloroethoxy)methane | 4000 | 3,820 | 200 | 100 |
| 2,6-Dichlorophenol | | U | 200 | 100 |
| 1,2,4-Trichlorobenzene | 4000 | 4,420 | 200 | 100 |
| Naphthalene | 4000 | 4,210 | 200 | 100 |
| C1-Naphthalenes | | U | 200 | 100 |
| C2-Naphthalenes | | U | 200 | 100 |
| C3-Naphthalenes | | U | 200 | 100 |
| C4-Naphthalenes | | U | 200 | 100 |
| 2,4-Dichlorophenol | 4000 | 4,250 | 200 | 100 |
| 4-Chloroaniline | 4000 | 4,160 | 200 | 100 |
| Hexachlorobutadiene | 4000 | 2,580 | 200 | 100 |
| 1,2,3-Trichlorobenzene | 4000 | 2,210 | 200 | 100 |
| 4-Chloro-3-methylphenol | 4000 | 4,110 | 200 | 100 |
| 2-Methylnaphthalene | 4000 | 4,040 | 200 | 100 |
| 1-Methylnaphthalene | 4000 | 4,050 | 200 | 100 |
| Hexachlorocyclopentadiene | 4000 | 3,120 | 200 | 100 |
| 2,4,6-Trichlorophenol | 4000 | 4,080 | 200 | 100 |
| 2,4,5-Trichlorophenol | 4000 | 4,360 | 200 | 100 |
| 2-Chloronaphthalene | 4000 | 4,020 | 200 | 100 |
| 2-Nitroaniline | 4000 | 4,120 | 200 | 100 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060531-MBS-V | | |
| File ID: | D061513.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH060531-MB-V | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------|-----------------------|-------|-----|----------|
| Dimethylphthalate | 4000 | 3,220 | 200 | 100 |
| Acenaphthylene | 4000 | 3,760 | 200 | 100 |
| 3-Nitroaniline | 4000 | 5,790 | 200 | 100 |
| Acenaphthene | 4000 | 4,000 | 200 | 100 |
| 2,4-Dinitrophenol | 4000 | 3,890 | 200 | 100 |
| 4-Nitrophenol | 4000 | 4,090 | 200 | 100 |
| Dibenzofuran | 4000 | 4,030 | 200 | 100 |
| 2,3,4,6-Tetrachlorophenol | 4000 | 4,130 | 200 | 100 |
| Diethylphthalate | 4000 | 4,020 | 200 | 100 |
| 4-Chlorophenyl-phenylether | 4000 | 4,210 | 200 | 100 |
| Fluorene | 4000 | 3,900 | 200 | 100 |
| C1-Fluorenes | | U | 200 | 100 |
| C2-Fluorenes | | U | 200 | 100 |
| C3-Fluorenes | | U | 200 | 100 |
| 4-Nitroaniline | 4000 | 4,970 | 200 | 100 |
| 4,6-Dinitro-2-methylphenol | 4000 | 4,880 | 200 | 100 |
| n-Nitrosodiphenylamine | 4000 | 4,700 | 200 | 100 |
| 4-Bromophenyl-phenylether | 4000 | 4,480 | 200 | 100 |
| Hexachlorobenzene | 4000 | 4,540 | 200 | 100 |
| Pentachlorophenol | 4000 | 4,270 | 200 | 100 |
| Phenanthrene | 4000 | 4,180 | 200 | 100 |
| Anthracene | 4000 | 4,370 | 200 | 100 |
| C1-Phenanthrenes/Anthracenes | | U | 200 | 100 |
| C2-Phenanthrenes/Anthracenes | | U | 200 | 100 |
| C3-Phenanthrenes/Anthracenes | | U | 200 | 100 |
| Retene | | U | 200 | 100 |
| C4-Phenanthrenes/Anthracenes | | U | 200 | 100 |
| Dibenzothiophenes | | U | 200 | 100 |
| C1-Dibenzothiophenes | | U | 200 | 100 |
| C2-Dibenzothiophenes | | U | 200 | 100 |
| C3-Dibenzothiophenes | | U | 200 | 100 |
| C4-Dibenzothiophenes | | U | 200 | 100 |
| Carbazole | 4000 | 5,120 | 200 | 100 |
| Di-n-butylphthalate | 4000 | 4,300 | 200 | 100 |
| Fluoranthene | 4000 | 4,360 | 200 | 100 |
| Pyrene | 4000 | 4,400 | 200 | 100 |
| Benzo(b/c)fluorenes | | U | 200 | 100 |
| 2-Methylfluorene | | U | 200 | 100 |
| 4-Methylfluorene | | U | 200 | 100 |
| 1-Methylfluorene | | U | 200 | 100 |
| C1-Fluoranthenes/Pyrenes | | U | 200 | 100 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|--------------------|------------------------|------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell - Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270 M |
| Lab ID | CH060531-MBS-V | | |
| File ID: | D061513.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | NA |
| Date Analyzed: | 6/16/2006 | Extract Volume (µl): | 2000 |
| Instrument: | Duster | Prep DF: | 1.00 |
| Operator: | RS | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH060531-MB-V | | |

| Analyte | Concentration (mg/kg) | | RL | EDL | Comments |
|---------------------------------|-----------------------|--------|-----|-----|----------|
| C2-Fluoranthenes/Pyrenes | | U | 200 | 100 | |
| C3-Fluoranthenes/Pyrenes | | U | 200 | 100 | |
| Butylbenzylphthalate | 4000 | 4,860 | 200 | 100 | 122 % |
| Benz[a]anthracene | 4000 | 4,650 | 200 | 100 | 116 % |
| Chrysene | 4000 | 4,680 | 200 | 100 | 117 % |
| C1-Benz[a]anthracenes/Chrysenes | | U | 200 | 100 | |
| C2-Benz[a]anthracenes/Chrysenes | | U | 200 | 100 | |
| C3-Benz[a]anthracenes/Chrysenes | | U | 200 | 100 | |
| C4-Benz[a]anthracenes/Chrysenes | | U | 200 | 100 | |
| bis(2-Ethylhexyl)phthalate | 4000 | 5,020 | 200 | 100 | 126 % |
| Di-n-octylphthalate | 4000 | 3,970 | 200 | 100 | 99 % |
| Benzo[b]fluoranthene | 4000 | 3,570 | 200 | 100 | 89 % |
| Benzo[k]fluoranthene | 4000 | 3,810 | 200 | 100 | 95 % |
| Benzo[a]pyrene | 4000 | 3,840 | 200 | 100 | 96 % |
| Benzo[e]pyrene | | U | 200 | 100 | |
| Perylene | | U | 200 | 100 | |
| Indeno[1,2,3-cd]pyrene | 4000 | 3,940 | 200 | 100 | 99 % |
| Dibenz[a,h]anthracene | 4000 | 4,060 | 200 | 100 | 102 % |
| Benzo[g,h,i]perylene | 4000 | 3,680 | 200 | 100 | 92 % |
| Total PAH (16) | | 65,400 | 200 | 100 | |
| Total PAH (42) | | 69,400 | 200 | 100 | |

Extraction Surrogate Recoveries (%)

| | | Limits |
|----------------------|-----|----------|
| 2-Fluorophenol | 60 | 25 - 121 |
| Phenol-d5 | 53 | 24 - 113 |
| Nitrobenzene-d5 | 93 | 23 - 120 |
| 2-Fluorobiphenyl | 91 | 30 - 115 |
| 2,4,6-Tribromophenol | 114 | 10 - 123 |
| p-Terphenyl-d14 | 101 | 18 - 137 |

NA - Not applicable.

B - Analyte detected in the Blank.

J - Estimated value; detected between the RL and DL.

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL.

* - Triphenylene is known to coelute with this compound.

Appendix D

Volatile Compound/Trace Metals

Concentrations



06/13/06

Technical Report for

META Environmental, Inc.

Quantra NAPL-NJ



Accutest Job Number: M56745

Sampling Date: 05/30/06

Report to:

META Environmental, Inc.

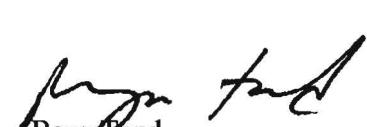
rsiegener@metaenv.com

ATTN: Raymond Siegener

Total number of pages in report: **10**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Pand
Lab Director



Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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Sample Summary

META Environmental, Inc.

Job No: M56745

Quantra NAPL-NJ

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|----------|----------|-------------|------|------------------|
| M56745-1 | 05/30/06 | 00:00 RS | 05/31/06 | SO | Oil | CH060526-013 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 3

Client Sample ID: CH060526-013

Lab Sample ID: M56745-1

Date Sampled: 05/30/06

Matrix: SO - Oil

Date Received: 05/31/06

Method: SW846 8260B

Percent Solids: n/a

Project: Quantra NAPL-NJ

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|----------|----|----------|----|-----------|------------|------------------|
| Run #1 ^a | H32510.D | 1 | 06/02/06 | SC | n/a | n/a | MSH1081 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 1.04 g | 10.0 ml | 10.0 ul |
| Run #2 | | | |

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|----------|-----------------------------|--------|-------|-------|---|
| 67-64-1 | Acetone | ND | 24000 | ug/kg | |
| 71-43-2 | Benzene | ND | 2400 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 24000 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 24000 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 9600 | ug/kg | |
| 75-25-2 | Bromoform | ND | 9600 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 9600 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 24000 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 24000 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 24000 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 24000 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 24000 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 9600 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 9600 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 24000 | ug/kg | |
| 67-66-3 | Chloroform | ND | 9600 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 24000 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 24000 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 24000 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 24000 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 9600 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 9600 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 9600 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 9600 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 9600 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 9600 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 9600 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 9600 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 9600 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 9600 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 9600 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 9600 | ug/kg | |

ND = Not detected

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 2 of 3

Client Sample ID: CH060526-013

Lab Sample ID: M56745-1

Matrix: SO - Oil

Method: SW846 8260B

Project: Quantra NAPL-NJ

Date Sampled: 05/30/06

Date Received: 05/31/06

Percent Solids: n/a

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|------------|-----------------------------|--------|-------|-------|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 24000 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 24000 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 24000 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 9600 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 9600 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 9600 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 24000 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 24000 | ug/kg | |
| 74-88-4 | Iodomethane | ND | 24000 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 24000 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 24000 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 24000 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 24000 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 9600 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 24000 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 24000 | ug/kg | |
| 100-42-5 | Styrene | ND | 24000 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 24000 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 9600 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 9600 | ug/kg | |
| 108-88-3 | Toluene | ND | 24000 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 24000 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 24000 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 9600 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 9600 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 9600 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 9600 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 24000 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 24000 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 24000 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 24000 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 9600 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 9600 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | | 70-130% |
| 2037-26-5 | Toluene-D8 | 89% | | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | | 73-128% |

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 3 of 3

| | | | |
|-------------------|-----------------|-----------------|----------|
| Client Sample ID: | CH060526-013 | Date Sampled: | 05/30/06 |
| Lab Sample ID: | M56745-1 | Date Received: | 05/31/06 |
| Matrix: | SO - Oil | Percent Solids: | n/a |
| Method: | SW846 8260B | | |
| Project: | Quantra NAPL-NJ | | |

VOA 8260 List

| CAS No. | Compound | Result | RL | Units | Q |
|---------|----------|--------|----|-------|---|
|---------|----------|--------|----|-------|---|

(a) Elevated RL due to dilution required for matrix interference.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 1

| | | | |
|-------------------|-----------------|-----------------|----------|
| Client Sample ID: | CH060526-013 | Date Sampled: | 05/30/06 |
| Lab Sample ID: | M56745-1 | Date Received: | 05/31/06 |
| Matrix: | SO - Oil | Percent Solids: | n/a |
| Project: | Quantra NAPL-NJ | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|
| Antimony | 5.2 | 1.9 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Arsenic | 15.7 | 1.9 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Beryllium | <0.37 | 0.37 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Cadmium | <0.37 | 0.37 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Chromium | 3.8 | 0.93 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Copper | 14.5 | 2.3 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Lead | 9.9 | 1.9 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Mercury | 0.032 | 0.032 | mg/kg | 1 | 06/10/06 | 06/12/06 | MA | SW846 7471A ¹ |
| Nickel | <3.7 | 3.7 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Selenium | <1.9 | 1.9 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Silver | <0.46 | 0.46 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Thallium | <1.9 | 1.9 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |
| Zinc | <1.9 | 1.9 | mg/kg | 1 | 06/07/06 | 06/12/06 | OP | SW846 6010B ² |

- (1) Instrument QC Batch: MA7041
- (2) Instrument QC Batch: MA7043
- (3) Prep QC Batch: MP8747
- (4) Prep QC Batch: MP8763

RL = Reporting Limit

Appendix E

Biomarker Concentrations

Analytical Results for Petroleum Biomarkers
META Environmental, Inc.

Field ID: **MW-7L-052406**

| | | | |
|----------------|------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH060526-01B | Matrix: | NAPL |
| File ID: | E060919.D | Preservation: | None |
| Date Sampled: | 5/24/2006 | Decanted: | None |
| Date Received: | 5/26/2006 | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.0109 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 6/11/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH060531-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------------|-----------------------|------|------|----------|
| Terpanes | | | | |
| C19 Tricyclic terpane | U | 1.83 | 0.92 | |
| C20 Tricyclic terpane | U | 1.83 | 0.92 | |
| C21 Tricyclic terpane | U | 1.83 | 0.92 | |
| C22 Tricyclic terpane | U | 1.83 | 0.92 | |
| C23 Tricyclic terpane | 1.40 J | 1.83 | 0.92 | |
| C24 Tricyclic terpane | 0.99 J | 1.83 | 0.92 | |
| C25 Tricyclic terpane-22S | U | 1.83 | 0.92 | |
| C25 Tricyclic terpane-22R | U | 1.83 | 0.92 | |
| C26 Tricyclic terpane-22S | U | 1.83 | 0.92 | |
| C26 Tricyclic terpane-22R | U | 1.83 | 0.92 | |
| C24 Tetracyclic terpane | U | 1.83 | 0.92 | |
| C28 Tricyclic terpane-22S | U | 1.83 | 0.92 | |
| C28 Tricyclic terpane-22R | U | 1.83 | 0.92 | |
| C29 Tricyclic terpane-22S | U | 1.83 | 0.92 | |
| C29 Tricyclic terpane-22R | U | 1.83 | 0.92 | |
| 18a(H)-22,29,30-Trisnorneohopane - Ts | 1.09 J | 1.83 | 0.92 | |
| C30 Tricyclic terpane-22S | U | 1.83 | 0.92 | |
| C30 Tricyclic terpane-22R | U | 1.83 | 0.92 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | 1.60 J | 1.83 | 0.92 | |
| 17b(H)-22,29,30-Trisnorhopane | U | 1.83 | 0.92 | |
| 17a(H)-29,30-Bisnorhopane | U | 1.83 | 0.92 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 1.83 | 0.92 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 1.83 | 0.92 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 1.83 | 0.92 | |
| 17a(H),21b(H)-25-Norhopane | U | 1.83 | 0.92 | |
| 30-Norhopane | 3.97 | 1.83 | 0.92 | |
| 18a(H)-30-Norneohopane - C29Ts | 1.35 J | 1.83 | 0.92 | |
| 15a-methyl-17a(H)-27-Norhopane | U | 1.83 | 0.92 | |
| 30-Normortane | U | 1.83 | 0.92 | |
| Oleananes | U | 1.83 | 0.92 | |
| Hopane | 5.46 | 1.83 | 0.92 | |
| Moretane | 2.44 | 1.83 | 0.92 | |
| 17a(H),21b(H)-30-Homohopane-22S | 1.79 J | 1.83 | 0.92 | |
| 17a(H),21b(H)-30-Homohopane-22R | 1.44 J | 1.83 | 0.92 | |
| Gammacerane | U | 1.83 | 0.92 | |
| 17b(H),21b(H)-Hopane | U | 1.83 | 0.92 | |
| 30-Homomorethane-22R | U | 1.83 | 0.92 | |
| Hop-22(29)-ene | U | 1.83 | 0.92 | |
| 30,31-Bishomohopane-22S | U | 1.83 | 0.92 | |
| 30,31-Bishomohopane-22R | U | 1.83 | 0.92 | |
| 30,31-Bishomomorethane-22R | U | 1.83 | 0.92 | |
| 17b(H),21b(H)-Homohopane-22R | U | 1.83 | 0.92 | |
| 30,31,32-Trishomohopane-22S | U | 1.83 | 0.92 | |

Analytical Results for Petroleum Biomarkers
META Environmental, Inc.

Field ID: **MW-7L-052406**

| | | | |
|----------------|------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH060526-01B | Matrix: | NAPL |
| File ID: | E060919.D | Preservation: | None |
| Date Sampled: | 5/24/2006 | Decanted: | None |
| Date Received: | 5/26/2006 | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.0109 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 6/11/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 1.00 |
| Batch QC: | CH060531-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|------|------|----------|
| 30,31,32-Trishomohopane-22R | U | 1.83 | 0.92 | |
| 30,31,32,33-Tetrakishomohopane-22S | U | 1.83 | 0.92 | |
| 30,31,32,33-Tetrakishomohopane-22R | U | 1.83 | 0.92 | |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 1.83 | 0.92 | |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 1.83 | 0.92 | |
| | | | | |
| C20 14a(H),17a(H)-Sterane | U | 1.83 | 0.92 | |
| C21 14b(H),17b(H)-Sterane | U | 1.83 | 0.92 | |
| C22 14b(H),17b(H)-Sterane | U | 1.83 | 0.92 | |
| C27 13b(H),17a(H)-20S-Diasterane | 0.97 J | 1.83 | 0.92 | |
| C27 13b(H),17a(H)-20R-Diasterane | U | 1.83 | 0.92 | |
| C27 13a(H),17b(H)-20S-Diasterane | U | 1.83 | 0.92 | |
| C27 13a(H),17b(H)-20R-Diasterane | U | 1.83 | 0.92 | |
| C28 13b(H),17a(H)-20S-Diasterane | U | 1.83 | 0.92 | |
| C28 13a(H),17b(H)-20S-Diasterane | U | 1.83 | 0.92 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 1.83 | 0.92 | |
| C27 14a(H),17a(H)-20S-Cholestanate | U | 1.83 | 0.92 | |
| C27 14b(H),17b(H)-20R-Cholestanate | U | 1.83 | 0.92 | |
| C27 14b(H),17b(H)-20S-Cholestanate | U | 1.83 | 0.92 | |
| C27 14a(H),17a(H)-20R-Cholestanate | 1.91 | 1.83 | 0.92 | |
| C29 13b(H),17a(H)-20S-Diasterane | U | 1.83 | 0.92 | |
| C29 13b(H),17a(H)-20R-Diasterane | 1.02 J | 1.83 | 0.92 | |
| C28 14a(H),17a(H)-20S-Methylcholestanate | U | 1.83 | 0.92 | |
| C28 14b(H),17b(H)-20R-Methylcholestanate | U | 1.83 | 0.92 | |
| C28 14b(H),17b(H)-20S-Methylcholestanate | U | 1.83 | 0.92 | |
| C28 14a(H),17a(H)-20R-Methylcholestanate | 1.18 J | 1.83 | 0.92 | |
| C29 14a(H),17a(H)-20S-Ethylcholestanate | 1.36 J | 1.83 | 0.92 | |
| C29 14b(H),17b(H)-20R-Ethylcholestanate | 1.87 | 1.83 | 0.92 | |
| C29 14b(H),17b(H)-20S-Ethylcholestanate | 1.44 J | 1.83 | 0.92 | |
| C29 14a(H),17a(H)-20R-Ethylcholestanate | 1.45 J | 1.83 | 0.92 | |

| Extraction Surrogate Recoveries (%) | | Limits |
|-------------------------------------|-----|----------|
| Phenanthrene-d10 | 92 | 50 - 120 |
| Perylene-d12 | 107 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Petroleum Biomarkers
META Environmental, Inc.

Field ID: Duplicate of MW-7L-052406

| | | | |
|----------------|------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH060526-01BDUP | Matrix: | NAPL |
| File ID: | E060920.D | Preservation: | None |
| Date Sampled: | 5/24/2006 | Decanted: | None |
| Date Received: | 5/26/2006 | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 6/11/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH060531-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------------------------|-----------------------|------|------|----------|
| Terpanes | | | | |
| C19 Tricyclic terpane | U | 1.57 | 0.79 | NA |
| C20 Tricyclic terpane | U | 1.57 | 0.79 | NA |
| C21 Tricyclic terpane | U | 1.57 | 0.79 | NA |
| C22 Tricyclic terpane | U | 1.57 | 0.79 | NA |
| C23 Tricyclic terpane | 1.10 J | 1.57 | 0.79 | 24 |
| C24 Tricyclic terpane | 0.80 J | 1.57 | 0.79 | 21.2 |
| C25 Tricyclic terpane-22S | U | 1.57 | 0.79 | NA |
| C25 Tricyclic terpane-22R | U | 1.57 | 0.79 | NA |
| C26 Tricyclic terpane-22S | U | 1.57 | 0.79 | NA |
| C26 Tricyclic terpane-22R | U | 1.57 | 0.79 | NA |
| C24 Tetracyclic terpane | U | 1.57 | 0.79 | NA |
| C28 Tricyclic terpane-22S | U | 1.57 | 0.79 | NA |
| C28 Tricyclic terpane-22R | U | 1.57 | 0.79 | NA |
| C29 Tricyclic terpane-22S | U | 1.57 | 0.79 | NA |
| C29 Tricyclic terpane-22R | U | 1.57 | 0.79 | NA |
| 18a(H)-22,29,30-Trisnorneohopane - Ts | U | 1.57 | 0.79 | NA |
| C30 Tricyclic terpane-22S | U | 1.57 | 0.79 | NA |
| C30 Tricyclic terpane-22R | U | 1.57 | 0.79 | NA |
| 17a(H)-22,29,30-Trisnorhopane - Tm | 1.14 J | 1.57 | 0.79 | 33.6 |
| 17b(H)-22,29,30-Trisnorhopane | U | 1.57 | 0.79 | NA |
| 17a(H)-29,30-Bisnorhopane | U | 1.57 | 0.79 | NA |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 1.57 | 0.79 | NA |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 1.57 | 0.79 | NA |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 1.57 | 0.79 | NA |
| 17a(H),21b(H)-25-Norhopane | U | 1.57 | 0.79 | NA |
| 30-Norhopane | 2.80 | 1.57 | 0.79 | 34.6 |
| 18a(H)-30-Norneohopane - C29Ts | 1.15 J | 1.57 | 0.79 | 16 |
| 15a-methyl-17a(H)-27-Norhopane | U | 1.57 | 0.79 | NA |
| 30-Normortane | U | 1.57 | 0.79 | NA |
| Oleananes | U | 1.57 | 0.79 | NA |
| Hopane | 3.96 | 1.57 | 0.79 | 31.8 |
| Moretane * | U | 1.57 | 0.79 | NA |
| 17a(H),21b(H)-30-Homohopane-22S | 1.32 J | 1.57 | 0.79 | 30.2 |
| 17a(H),21b(H)-30-Homohopane-22R | 1.15 J | 1.57 | 0.79 | 22.4 |
| Gammacerane | U | 1.57 | 0.79 | NA |
| 17b(H),21b(H)-Hopane | U | 1.57 | 0.79 | NA |
| 30-Homomorethane-22R | U | 1.57 | 0.79 | NA |
| Hop-22(29)-ene | U | 1.57 | 0.79 | NA |
| 30,31-Bishomohopane-22S | U | 1.57 | 0.79 | NA |
| 30,31-Bishomohopane-22R | U | 1.57 | 0.79 | NA |
| 30,31-Bishomomorethane-22R | U | 1.57 | 0.79 | NA |
| 17b(H),21b(H)-Homohopane-22R | U | 1.57 | 0.79 | NA |
| 30,31,32-Trishomohopane-22S | U | 1.57 | 0.79 | NA |

Analytical Results for Petroleum Biomarkers
META Environmental, Inc.

Field ID: Duplicate of MW-7L-052406

| | | | |
|----------------|------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH060526-01BDUP | Matrix: | NAPL |
| File ID: | E060920.D | Preservation: | None |
| Date Sampled: | 5/24/2006 | Decanted: | None |
| Date Received: | 5/26/2006 | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 6/11/2006 | Extract Volume (µl): | 2000 |
| Instrument: | El Camino | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | CH060531-MB | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|------|------|----------|
| 30,31,32-Trishomohopane-22R | U | 1.57 | 0.79 | NA |
| 30,31,32,33-Tetrakishomohopane-22S | U | 1.57 | 0.79 | NA |
| 30,31,32,33-Tetrakishomohopane-22R | U | 1.57 | 0.79 | NA |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 1.57 | 0.79 | NA |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 1.57 | 0.79 | NA |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | U | 1.57 | 0.79 | NA |
| C21 14b(H),17b(H)-Sterane | U | 1.57 | 0.79 | NA |
| C22 14b(H),17b(H)-Sterane | U | 1.57 | 0.79 | NA |
| C27 13b(H),17a(H)-20S-Diasterane | U | 1.57 | 0.79 | NA |
| C27 13b(H),17a(H)-20R-Diasterane | U | 1.57 | 0.79 | NA |
| C27 13a(H),17b(H)-20S-Diasterane | U | 1.57 | 0.79 | NA |
| C27 13a(H),17b(H)-20R-Diasterane | U | 1.57 | 0.79 | NA |
| C28 13b(H),17a(H)-20S-Diasterane | U | 1.57 | 0.79 | NA |
| C28 13a(H),17b(H)-20S-Diasterane | U | 1.57 | 0.79 | NA |
| C28 13a(H),17b(H)-20R-Diasterane | U | 1.57 | 0.79 | NA |
| C27 14a(H),17a(H)-20S-Cholestane | U | 1.57 | 0.79 | NA |
| C27 14b(H),17b(H)-20R-Cholestane | U | 1.57 | 0.79 | NA |
| C27 14b(H),17b(H)-20S-Cholestane | U | 1.57 | 0.79 | NA |
| C27 14a(H),17a(H)-20R-Cholestane | 1.53 J | 1.57 | 0.79 | 22.1 |
| C29 13b(H),17a(H)-20S-Diasterane | U | 1.57 | 0.79 | NA |
| C29 13b(H),17a(H)-20R-Diasterane | 0.91 J | 1.57 | 0.79 | 11.4 |
| C28 14a(H),17a(H)-20S-Methylcholestane | U | 1.57 | 0.79 | NA |
| C28 14b(H),17b(H)-20R-Methylcholestane | 0.81 J | 1.57 | 0.79 | NA |
| C28 14b(H),17b(H)-20S-Methylcholestane | U | 1.57 | 0.79 | NA |
| C28 14a(H),17a(H)-20R-Methylcholestane | U | 1.57 | 0.79 | NA |
| C29 14a(H),17a(H)-20S-Ethylcholestane | 1.06 J | 1.57 | 0.79 | 24.8 |
| C29 14b(H),17b(H)-20R-Ethylcholestane | 1.25 J | 1.57 | 0.79 | 39.7 |
| C29 14b(H),17b(H)-20S-Ethylcholestane | 1.08 J | 1.57 | 0.79 | 28.6 |
| C29 14a(H),17a(H)-20R-Ethylcholestane | 1.27 J | 1.57 | 0.79 | 13.2 |

| Extraction Surrogate Recoveries (%) | Limits |
|-------------------------------------|-------------------|
| Phenanthrene-d10 | 90 50 - 120 |
| Perylene-d12 | 110 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Petroleum Biomarkers
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH060531-MB | Matrix: | NAPL |
| File ID: | E060917.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 6/11/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| Batch QC: | CH060531-MB | Injection Volume (µl): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------------|-----------------------|------|-----|----------|
| Terpanes | | | | |
| C19 Tricyclic terpane | U | 2.00 | 1.0 | |
| C20 Tricyclic terpane | U | 2.00 | 1.0 | |
| C21 Tricyclic terpane | U | 2.00 | 1.0 | |
| C22 Tricyclic terpane | U | 2.00 | 1.0 | |
| C23 Tricyclic terpane | U | 2.00 | 1.0 | |
| C24 Tricyclic terpane | U | 2.00 | 1.0 | |
| C25 Tricyclic terpane-22S | U | 2.00 | 1.0 | |
| C25 Tricyclic terpane-22R | U | 2.00 | 1.0 | |
| C26 Tricyclic terpane-22S | U | 2.00 | 1.0 | |
| C26 Tricyclic terpane-22R | U | 2.00 | 1.0 | |
| C24 Tetracyclic terpane | U | 2.00 | 1.0 | |
| C28 Tricyclic terpane-22S | U | 2.00 | 1.0 | |
| C28 Tricyclic terpane-22R | U | 2.00 | 1.0 | |
| C29 Tricyclic terpane-22S | U | 2.00 | 1.0 | |
| C29 Tricyclic terpane-22R | U | 2.00 | 1.0 | |
| 18a(H)-22,29,30-Trisnorhopane - Ts | U | 2.00 | 1.0 | |
| C30 Tricyclic terpane-22S | U | 2.00 | 1.0 | |
| C30 Tricyclic terpane-22R | U | 2.00 | 1.0 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | U | 2.00 | 1.0 | |
| 17b(H)-22,29,30-Trisnorhopane | U | 2.00 | 1.0 | |
| 17a(H)-29,30-Bisnorhopane | U | 2.00 | 1.0 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 2.00 | 1.0 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 2.00 | 1.0 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 2.00 | 1.0 | |
| 17a(H),21b(H)-25-Norhopane | U | 2.00 | 1.0 | |
| 30-Norhopane | U | 2.00 | 1.0 | |
| 18a(H)-30-Norneohopane - C29Ts | U | 2.00 | 1.0 | |
| 15a-methyl-17a(H)-27-Norhopane | U | 2.00 | 1.0 | |
| 30-Normortane | U | 2.00 | 1.0 | |
| Oleananes | U | 2.00 | 1.0 | |
| Hopane | U | 2.00 | 1.0 | |
| Moretane * | U | 2.00 | 1.0 | |
| 17a(H),21b(H)-30-Homohopane-22S | U | 2.00 | 1.0 | |
| 17a(H),21b(H)-30-Homohopane-22R | U | 2.00 | 1.0 | |
| Gammacerane | U | 2.00 | 1.0 | |
| 17b(H),21b(H)-Hopane | U | 2.00 | 1.0 | |
| 30-Homomorethane-22R | U | 2.00 | 1.0 | |
| Hop-22(29)-ene | U | 2.00 | 1.0 | |
| 30,31-Bishomohopane-22S | U | 2.00 | 1.0 | |
| 30,31-Bishomohopane-22R | U | 2.00 | 1.0 | |
| 30,31-Bishomomorethane-22R | U | 2.00 | 1.0 | |
| 17b(H),21b(H)-Homohopane-22R | U | 2.00 | 1.0 | |
| 30,31,32-Trishomohopane-22S | U | 2.00 | 1.0 | |

Analytical Results for Petroleum Biomarkers
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH060531-MB | Matrix: | NAPL |
| File ID: | E060917.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.0100 |
| Date Cleanup: | NA | Percent Solid: | 100% |
| Date Analyzed: | 6/11/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | El Camino | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| Batch QC: | CH060531-MB | Injection Volume (μ l): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|------|-----|----------|
| 30,31,32-Trishomohopane-22R | U | 2.00 | 1.0 | |
| 30,31,32,33-Tetrakishomohopane-22S | U | 2.00 | 1.0 | |
| 30,31,32,33-Tetrakishomohopane-22R | U | 2.00 | 1.0 | |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 2.00 | 1.0 | |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 2.00 | 1.0 | |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | U | 2.00 | 1.0 | |
| C21 14b(H),17b(H)-Sterane | U | 2.00 | 1.0 | |
| C22 14b(H),17b(H)-Sterane | U | 2.00 | 1.0 | |
| C27 13b(H),17a(H)-20S-Diasterane | U | 2.00 | 1.0 | |
| C27 13b(H),17a(H)-20R-Diasterane | U | 2.00 | 1.0 | |
| C27 13a(H),17b(H)-20S-Diasterane | U | 2.00 | 1.0 | |
| C27 13a(H),17b(H)-20R-Diasterane | U | 2.00 | 1.0 | |
| C28 13b(H),17a(H)-20S-Diasterane | U | 2.00 | 1.0 | |
| C28 13a(H),17b(H)-20S-Diasterane | U | 2.00 | 1.0 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 2.00 | 1.0 | |
| C27 14a(H),17a(H)-20S-Cholestane | U | 2.00 | 1.0 | |
| C27 14b(H),17b(H)-20R-Cholestane | U | 2.00 | 1.0 | |
| C27 14b(H),17b(H)-20S-Cholestane | U | 2.00 | 1.0 | |
| C27 14a(H),17a(H)-20R-Cholestane | U | 2.00 | 1.0 | |
| C29 13b(H),17a(H)-20S-Diasterane | U | 2.00 | 1.0 | |
| C29 13b(H),17a(H)-20R-Diasterane | U | 2.00 | 1.0 | |
| C28 14a(H),17a(H)-20S-Methylcholestane | U | 2.00 | 1.0 | |
| C28 14b(H),17b(H)-20R-Methylcholestane | U | 2.00 | 1.0 | |
| C28 14b(H),17b(H)-20S-Methylcholestane | U | 2.00 | 1.0 | |
| C28 14a(H),17a(H)-20R-Methylcholestane | U | 2.00 | 1.0 | |
| C29 14a(H),17a(H)-20S-Ethylcholestane | U | 2.00 | 1.0 | |
| C29 14b(H),17b(H)-20R-Ethylcholestane | U | 2.00 | 1.0 | |
| C29 14b(H),17b(H)-20S-Ethylcholestane | U | 2.00 | 1.0 | |
| C29 14a(H),17a(H)-20R-Ethylcholestane | U | 2.00 | 1.0 | |

| Extraction Surrogate Recoveries (%) | Limits |
|-------------------------------------|----------|
| Phenanthrene-d10 | 50 - 120 |
| Perylene-d12 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|------------------|------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH060531-MBS | Matrix: | NAPL |
| File ID: | E060918.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 1/0/1900 | Sample Size (g): | 0.01 |
| Date Cleanup: | 1/0/1900 | Percent Solid: | 100% |
| Date Analyzed: | 6/11/2006 | Extract Volume (µl): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| Batch QC: | CH060531-MB | Injection Volume (µl): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|------------------------------------|-----------------------|------|------|------------|
| Terpanes | Spike Amount | | | % Recovery |
| C19 Tricyclic terpane | U | 2.00 | 1.00 | |
| C20 Tricyclic terpane | U | 2.00 | 1.00 | |
| C21 Tricyclic terpane | U | 2.00 | 1.00 | |
| C22 Tricyclic terpane | U | 2.00 | 1.00 | |
| C23 Tricyclic terpane | U | 2.00 | 1.00 | |
| C24 Tricyclic terpane | U | 2.00 | 1.00 | |
| C25 Tricyclic terpane-22S | U | 2.00 | 1.00 | |
| C25 Tricyclic terpane-22R | U | 2.00 | 1.00 | |
| C26 Tricyclic terpane-22S | U | 2.00 | 1.00 | |
| C26 Tricyclic terpane-22R | U | 2.00 | 1.00 | |
| C24 Tetracyclic terpane | U | 2.00 | 1.00 | |
| C28 Tricyclic terpane-22S | U | 2.00 | 1.00 | |
| C28 Tricyclic terpane-22R | U | 2.00 | 1.00 | |
| C29 Tricyclic terpane-22S | U | 2.00 | 1.00 | |
| C29 Tricyclic terpane-22R | U | 2.00 | 1.00 | |
| 18a(H)-22,29,30-Trisnorhopane - Ts | U | 2.00 | 1.00 | |
| C30 Tricyclic terpane-22S | U | 2.00 | 1.00 | |
| C30 Tricyclic terpane-22R | U | 2.00 | 1.00 | |
| 17a(H)-22,29,30-Trisnorhopane - Tm | U | 2.00 | 1.00 | |
| 17b(H)-22,29,30-Trisnorhopane | U | 2.00 | 1.00 | |
| 17a(H)-29,30-Bisnorhopane | U | 2.00 | 1.00 | |
| 17b(H),21b(H)-28,30-Bisnorhopane | U | 2.00 | 1.00 | |
| 17b(H),21a(H)-28,30-Bisnorhopane | U | 2.00 | 1.00 | |
| 17a(H),21b(H)-28,30-Bisnorhopane | U | 2.00 | 1.00 | |
| 17a(H),21b(H)-25-Norhopane | U | 2.00 | 1.00 | |
| 30-Norhopane | U | 2.00 | 1.00 | |
| 18a(H)-30-Norneohopane - C29Ts | U | 2.00 | 1.00 | |
| 15a-methyl-17a(H)-27-Norhopane | U | 2.00 | 1.00 | |
| 30-Normortane | U | 2.00 | 1.00 | |
| Oleananes | U | 2.00 | 1.00 | |
| Hopane | U | 2.00 | 1.00 | |
| Moretane | U | 2.00 | 1.00 | |
| 17a(H),21b(H)-30-Homohopane-22S | U | 2.00 | 1.00 | |
| 17a(H),21b(H)-30-Homohopane-22R | U | 2.00 | 1.00 | |
| Gammacerane | U | 2.00 | 1.00 | |
| 17b(H),21b(H)-Hopane | U | 2.00 | 1.00 | |
| 30-Homomorethane-22R | U | 2.00 | 1.00 | |
| Hop-22(29)-ene | U | 2.00 | 1.00 | |
| 30,31-Bishomohopane-22S | U | 2.00 | 1.00 | |
| 30,31-Bishomohopane-22R | U | 2.00 | 1.00 | |
| 30,31-Bishomomorethane-22R | U | 2.00 | 1.00 | |
| 17b(H),21b(H)-Homohopane-22R | U | 2.00 | 1.00 | |
| 30,31,32-Trishomohopane-22S | U | 2.00 | 1.00 | |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|------------------|------------------------------|-----------|
| Client: | CH2M Hill | Preparation Method: | EPA 3580 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | CH060531-MBS | Matrix: | NAPL |
| File ID: | E060918.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 1/0/1900 | Sample Size (g): | 0.01 |
| Date Cleanup: | 1/0/1900 | Percent Solid: | 100% |
| Date Analyzed: | 6/11/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | EI Camino | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| Batch QC: | CH060531-MB | Injection Volume (μ l): | 1.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--|-----------------------|------|------|----------|
| 30,31,32-Trishomohopane-22R | U | 2.00 | 1.00 | |
| 30,31,32,33-Tetrakishomohopane-22S | U | 2.00 | 1.00 | |
| 30,31,32,33-Tetrakishomohopane-22R | U | 2.00 | 1.00 | |
| 30,31,32,33,34-Pentakishomohopane-22S | U | 2.00 | 1.00 | |
| 30,31,32,33,34-Pentakishomohopane-22R | U | 2.00 | 1.00 | |
| Steranes | | | | |
| C20 14a(H),17a(H)-Sterane | U | 2.00 | 1.00 | |
| C21 14b(H),17b(H)-Sterane | U | 2.00 | 1.00 | |
| C22 14b(H),17b(H)-Sterane | U | 2.00 | 1.00 | |
| C27 13b(H),17a(H)-20S-Diasterane | U | 2.00 | 1.00 | |
| C27 13b(H),17a(H)-20R-Diasterane | U | 2.00 | 1.00 | |
| C27 13a(H),17b(H)-20S-Diasterane | U | 2.00 | 1.00 | |
| C27 13a(H),17b(H)-20R-Diasterane | U | 2.00 | 1.00 | |
| C28 13b(H),17a(H)-20S-Diasterane | U | 2.00 | 1.00 | |
| C28 13b(H),17b(H)-20S-Diasterane | U | 2.00 | 1.00 | |
| C28 13a(H),17b(H)-20R-Diasterane | U | 2.00 | 1.00 | |
| C27 14a(H),17a(H)-20S-Cholestane | U | 2.00 | 1.00 | |
| C27 14b(H),17b(H)-20R-Cholestane | U | 2.00 | 1.00 | |
| C27 14b(H),17b(H)-20S-Cholestane | U | 2.00 | 1.00 | |
| C27 14a(H),17a(H)-20R-Cholestane | U | 2.00 | 1.00 | |
| C29 13b(H),17a(H)-20S-Diasterane | U | 2.00 | 1.00 | |
| C29 13b(H),17a(H)-20R-Diasterane | U | 2.00 | 1.00 | |
| C28 14a(H),17a(H)-20S-Methylcholestane | U | 2.00 | 1.00 | |
| C28 14b(H),17b(H)-20R-Methylcholestane | U | 2.00 | 1.00 | |
| C28 14b(H),17b(H)-20S-Methylcholestane | U | 2.00 | 1.00 | |
| C28 14a(H),17a(H)-20R-Methylcholestane | U | 2.00 | 1.00 | |
| C29 14a(H),17a(H)-20S-Ethylcholestane | U | 2.00 | 1.00 | |
| C29 14b(H),17b(H)-20R-Ethylcholestane | U | 2.00 | 1.00 | |
| C29 14b(H),17b(H)-20S-Ethylcholestane | U | 2.00 | 1.00 | |
| C29 14a(H),17a(H)-20R-Ethylcholestane | U | 2.00 | 1.00 | |

| | | |
|--|----|----------|
| <i>Extraction Surrogate Recoveries (%)</i> | | Limits |
| Phenanthrene-d10 | 78 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Appendix F

PCB Concentrations

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: **MW-7L-052406**

| | | | |
|----------------|------------------|------------------------------|---------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3540 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | EPA 3665/3660 |
| | | Analysis Method: | EPA 8082M |
| Lab ID | CH060526-01B-C | Matrix: | NAPL |
| File ID: | A060618.D | Preservation: | None |
| Date Sampled: | 5/24/2006 | Decanted: | None |
| Date Received: | 5/26/2006 | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.0125 |
| Date Cleanup: | 5/31/2006 | Percent Solid: | 100% |
| Date Analyzed: | 6/7/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | AMX | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| Batch QC: | CH060531-MB-C | Injection Volume (μ l): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------|-----------------------|-----|-------|----------|
| PCB AROCLORS | | | | |
| Aroclor 1016 | U | 1.6 | 0.800 | |
| Aroclor 1221 | U | 1.6 | 0.800 | |
| Aroclor 1232 | U | 1.6 | 0.800 | |
| Aroclor 1242 | U | 1.6 | 0.800 | |
| Aroclor 1248 | U | 1.6 | 0.800 | |
| Aroclor 1254 | U | 1.6 | 0.800 | |
| Aroclor 1260 | U | 1.6 | 0.800 | |
| Aroclor 1262 | U | 1.6 | 0.800 | |
| Aroclor 1268 | U | 1.6 | 0.800 | |

Extraction Surrogate Recoveries (%)

| | | |
|----------------------|----|----------|
| Tetrachloro-m-xylene | 60 | Limits |
| Decachlorobiphenyl | 73 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: **Duplicate of MW-7L-052406**

| | | | |
|----------------|-------------------|------------------------------|---------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3540 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | EPA 3665/3660 |
| | | Analysis Method: | EPA 8082M |
| Lab ID | CH060526-01BDUP-C | | |
| File ID: | A060619.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | 5/24/2006 | Decanted: | None |
| Date Received: | 5/26/2006 | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.0106 |
| Date Cleanup: | 5/31/2006 | Percent Solid: | 100% |
| Date Analyzed: | 6/7/2006 | Extract Volume (μ l): | 2000 |
| Instrument: | AMX | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| | | Injection Volume (μ l): | 2.00 |
| Batch QC: | CH060531-MB-C | | |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------|-----------------------|------|-------|----------|
| PCB AROCLORS | | | | |
| Aroclor 1016 | U | 1.89 | 0.945 | NA |
| Aroclor 1221 | U | 1.89 | 0.945 | NA |
| Aroclor 1232 | U | 1.89 | 0.945 | NA |
| Aroclor 1242 | U | 1.89 | 0.945 | NA |
| Aroclor 1248 | U | 1.89 | 0.945 | NA |
| Aroclor 1254 | U | 1.89 | 0.945 | NA |
| Aroclor 1260 | U | 1.89 | 0.945 | NA |
| Aroclor 1262 | U | 1.89 | 0.945 | NA |
| Aroclor 1268 | U | 1.89 | 0.945 | NA |

Extraction Surrogate Recoveries (%)

| | | |
|----------------------|----|----------|
| Tetrachloro-m-xylene | 51 | Limits |
| Decachlorobiphenyl | 62 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank**

| | | | |
|----------------|------------------|------------------------|---------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3540 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | EPA 3665/3660 |
| | | Analysis Method: | EPA 8082M |
| Lab ID | CH060531-MB-C | | |
| File ID: | A060616.D | Matrix: | NAPL |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | 5/31/2006 | Percent Solid: | 100% |
| Date Analyzed: | 6/7/2006 | Extract Volume (µl): | 2000 |
| Instrument: | AMX | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| Batch QC: | CH060531-MB-C | Injection Volume (µl): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|---------------------|-----------------------|-----|-----|----------|
| PCB AROCLORS | | | | |
| Aroclor 1016 | U | 2.0 | 1.0 | |
| Aroclor 1221 | U | 2.0 | 1.0 | |
| Aroclor 1232 | U | 2.0 | 1.0 | |
| Aroclor 1242 | U | 2.0 | 1.0 | |
| Aroclor 1248 | U | 2.0 | 1.0 | |
| Aroclor 1254 | U | 2.0 | 1.0 | |
| Aroclor 1260 | U | 2.0 | 1.0 | |
| Aroclor 1262 | U | 2.0 | 1.0 | |
| Aroclor 1268 | U | 2.0 | 1.0 | |

Extraction Surrogate Recoveries (%)

| | | |
|----------------------|----|----------|
| Tetrachloro-m-xylene | 71 | Limits |
| Decachlorobiphenyl | 76 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Analytical Results for Semivolatile Organics
META Environmental, Inc.

Field ID: **Method Blank Spike**

| | | | |
|----------------|------------------|------------------------|---------------|
| Client: | CH2M Hill | Preparation Method: | EPA 3540 |
| Project: | Honeywell-Quanta | Cleanup Method(s): | EPA 3665/3660 |
| | | Analysis Method: | EPA 8082M |
| Lab ID | CH060531-MBS-C | Matrix: | NAPL |
| File ID: | A060617.D | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 5/31/2006 | Sample Size (g): | 0.01 |
| Date Cleanup: | 5/31/2006 | Percent Solid: | 100% |
| Date Analyzed: | 6/7/2006 | Extract Volume (µl): | 2000 |
| Instrument: | AMX | Prep DF: | 1.00 |
| Operator: | JAR | Analysis DF: | 1.00 |
| Batch QC: | CH060531-MB-C | Injection Volume (µl): | 2.00 |

| Analyte | Concentration (mg/kg) | RL | EDL | Comments |
|--------------|-----------------------|------|-----|------------|
| PCB AROCLORS | Spike Amount | | | % Recovery |
| Aroclor 1016 | 100 | 90.0 | 2.0 | 1.0 |
| Aroclor 1221 | | U | 2.0 | 1.0 |
| Aroclor 1232 | | U | 2.0 | 1.0 |
| Aroclor 1242 | | U | 2.0 | 1.0 |
| Aroclor 1248 | | U | 2.0 | 1.0 |
| Aroclor 1254 | | U | 2.0 | 1.0 |
| Aroclor 1260 | 100 | 93.8 | 2.0 | 1.0 |
| Aroclor 1262 | | U | 2.0 | 1.0 |
| Aroclor 1268 | | U | 2.0 | 1.0 |

Extraction Surrogate Recoveries (%)

| | | |
|----------------------|----|----------|
| Tetrachloro-m-xylene | 77 | Limits |
| Decachlorobiphenyl | 84 | 50 - 120 |

NA - Not applicable

B - Analyte detected in the Blank

J - Estimated value; detected between the RL and DL

U - Analyte not detected above DL.

D - Analyte reported from a diluted extract.

E - Estimate, result detected above calibration range.

I - Concentration/Peak ID uncertain due to potential interference.

RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.

EDL - Estimated detection limit is 50% of RL

Appendix G

Physical Properties



SAYBOLT LP
400 SWENSON DRIVE
KENILWORTH, NJ 07033
908-245-3100 Telephone
908-245-5828 Facsimile

Fast To The Point

Saybolt LP

Certificate of Analysis

Report Date: 6/6/2006 Date Sampled: 5/24/2006
Job No: 13032-00001951 Product: #6 F/O
Lab Number: 2006050341-01 Sample ID: CH060526-01A
Client Ref: N/A Location: Watertown, MA

| Test | Method | Result | Units |
|--------------------------|-------------|--------|-----------------------|
| Gravity, API @ 60 °F | ASTM D-4052 | 29.8 | @ 60 °F |
| Specific Gravity | Table 3 | 0.8772 | @ 60 °F |
| Density @ 15 C | Table 3 | 876.8 | @ 60 °F |
| Viscosity, Kin @ 122.0°F | ASTM D-445 | 4.93 | cSt |
| Viscosity, SFS @ 122.0°F | ASTM D-2161 | N/A | Sec |
| water content | Visual | 45 % | Vol.% |
| Interfacial Tension | ASTM D-971 | 25.9 | Dynes/cm ² |

Approved By:

Nada Bardaghji
Laboratory Manager, US East Coast

Issuer warrants that it has exercised due diligence and care with respect to the information and professional judgments embodied in this report. This report reflects only the findings at the time and place of inspection and testing. Issuer expressly disclaims any further indemnity of any kind. This report is not a guarantee or policy of insurance with respect to the goods or the contractual performance of any party. Any person relying upon this report should be aware that issuer's activities are carried out under their general terms and conditions.

"Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D 3244 (except for analysis of RFG), IP 367 and appendix E of IP standard methods for analysis testing with respect to the utilization of test data to determine conformance with specifications"

Appendix H

MAH/PAH Histograms

MW-7L-052406

CH060526-01B-V

250

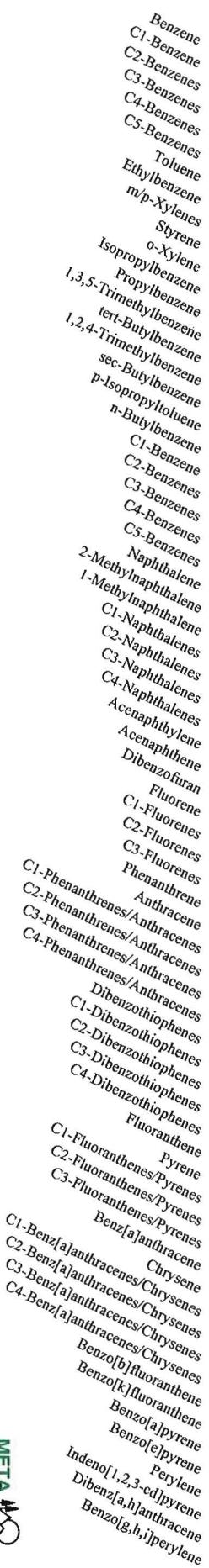
200

150

100

Concentration (mg/kg)

0



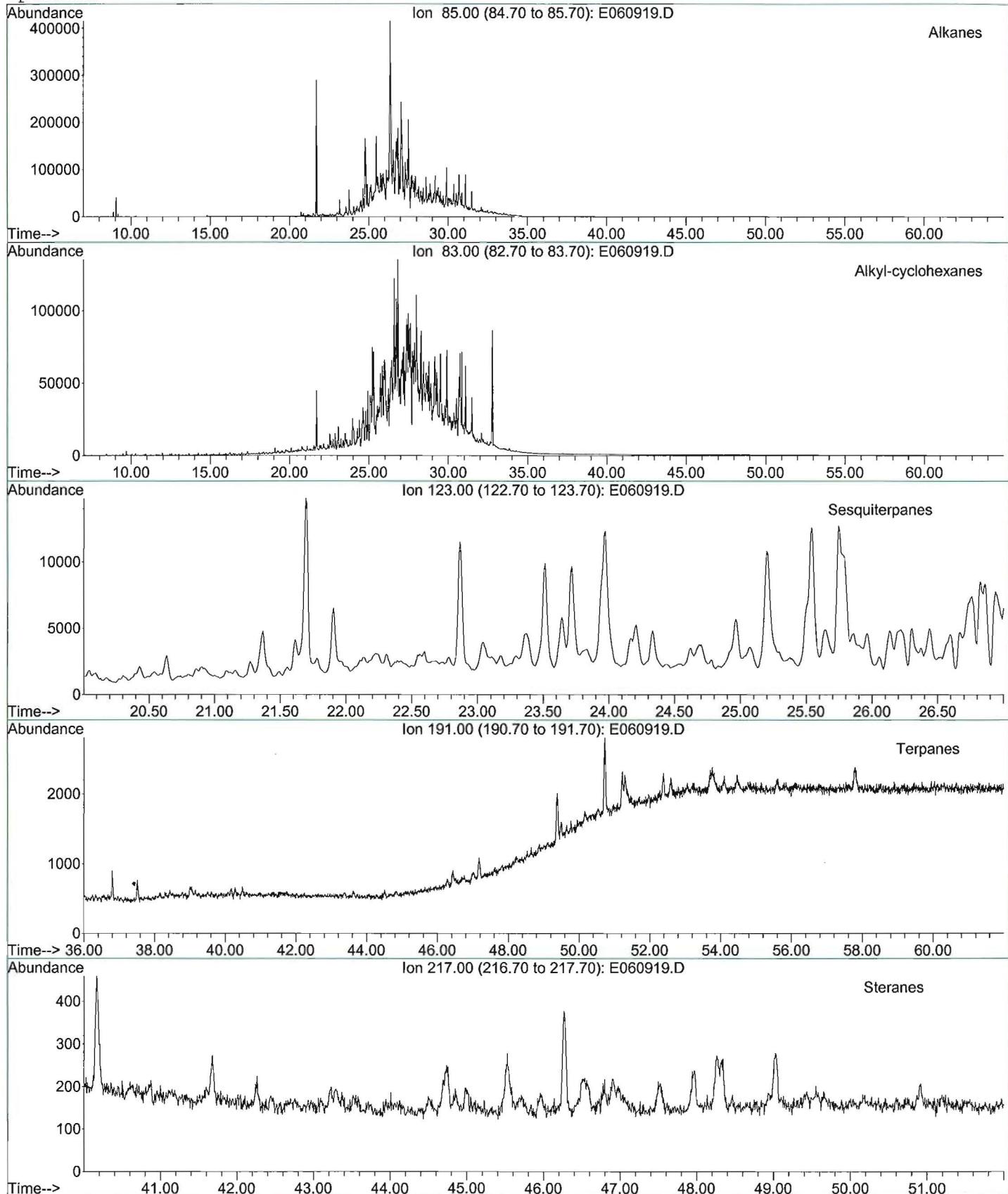
Appendix I

Extracted Ion Current Profiles (EICPs)

META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

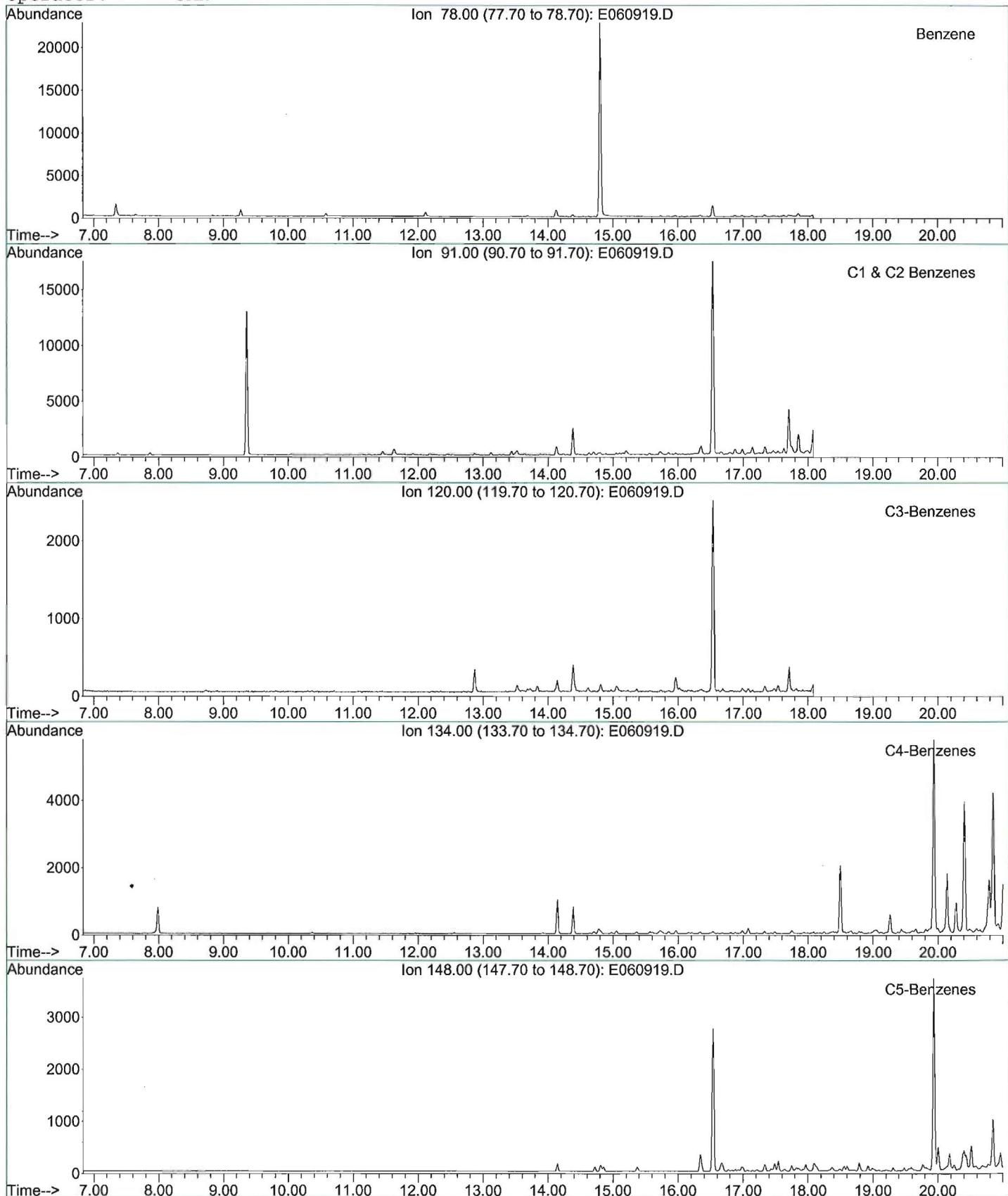
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Date Acquired: 11 Jun 2006 11:05 am
Method File: 4008SIM2.M
Sample Name: CH060531-01B
Misc Info: MW-7L-052406
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

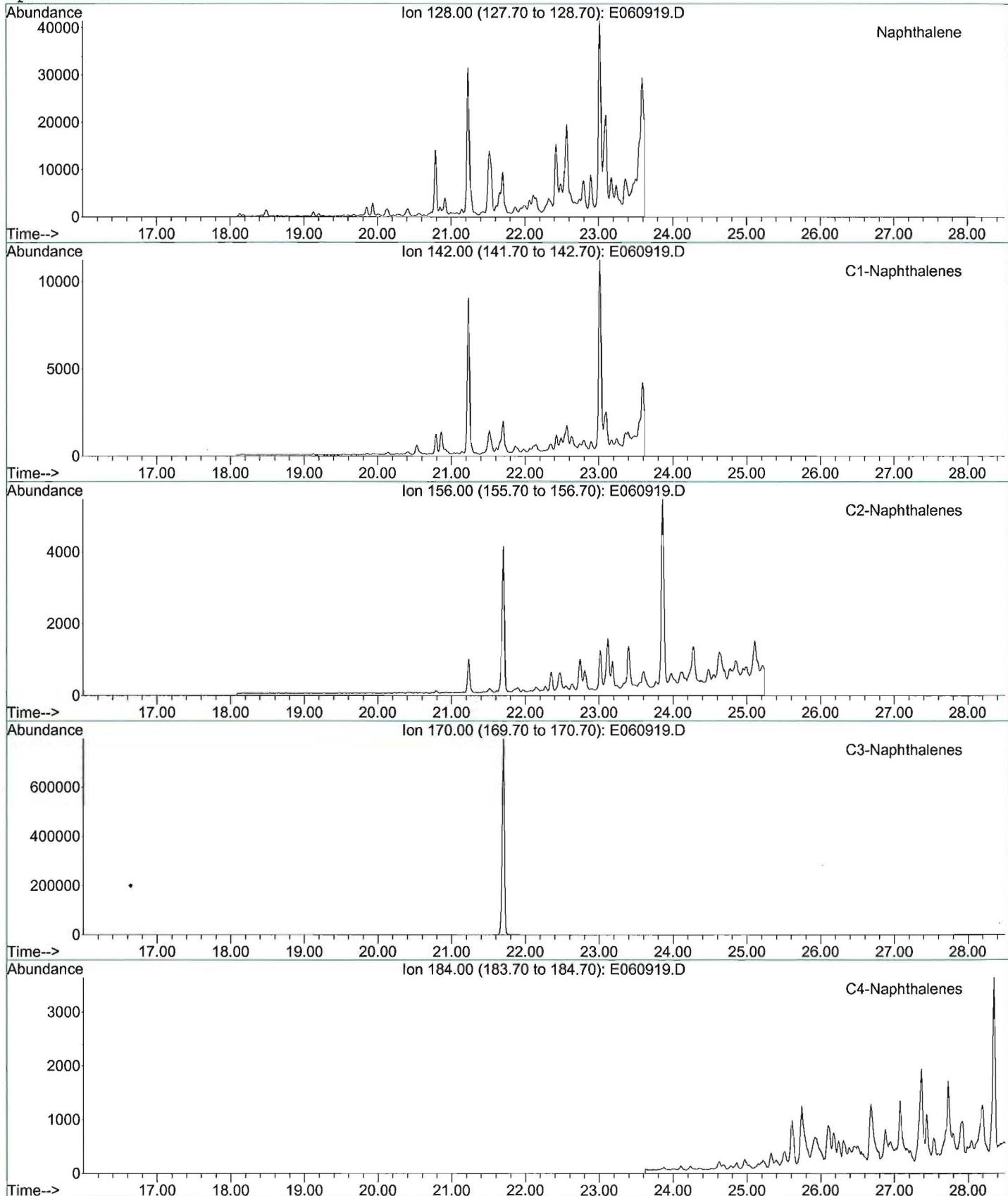
File: J:\1\DATA\E060609\E060919.D
Date Acquired: 11 Jun 2006 11:05 am
Method File: 4008SIM2.M
Sample Name: CH060531-01B
Misc Info: MW-7L-052406
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

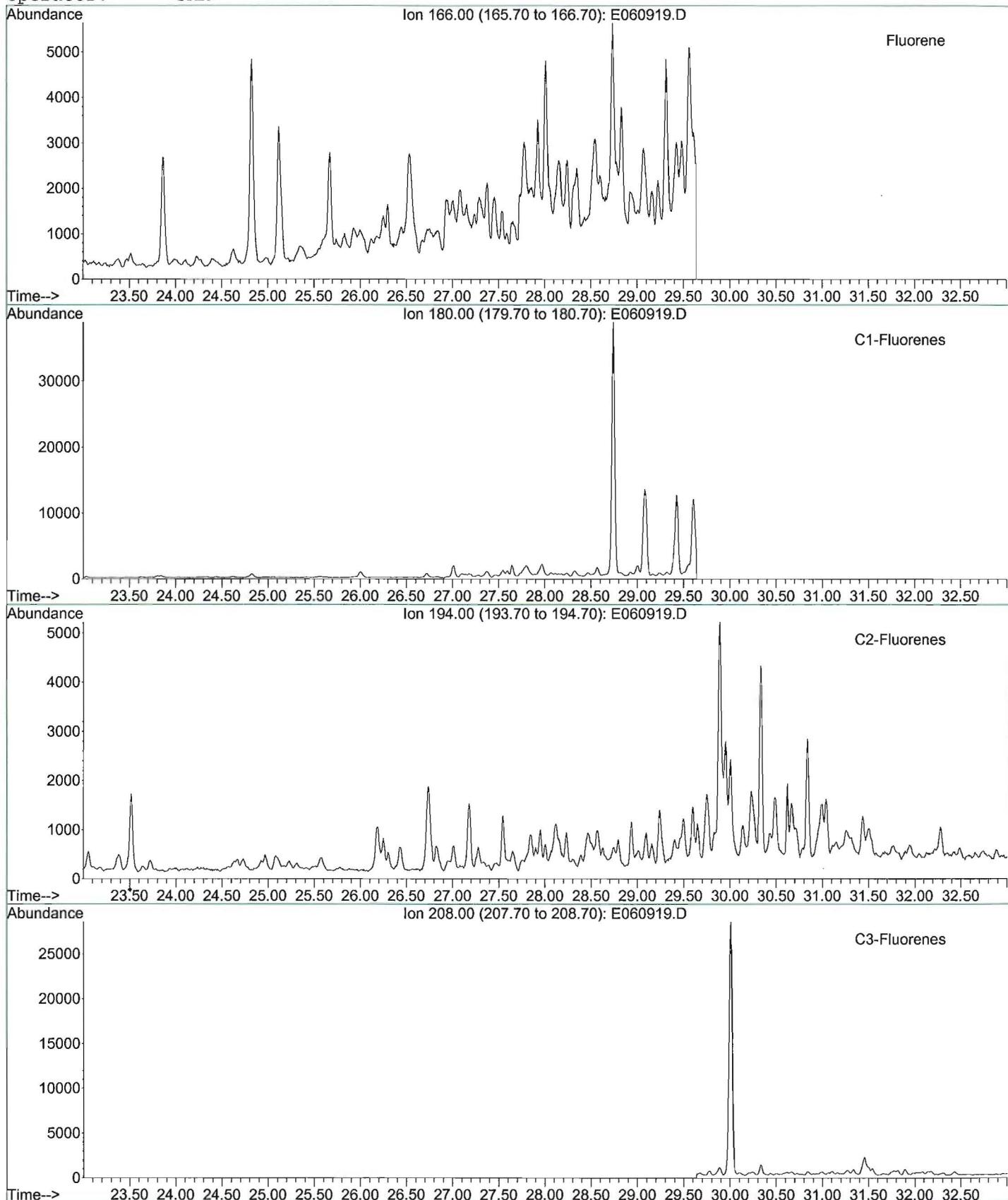
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Date Acquired: 11 Jun 2006 11:05 am
Method File: 4008SIM2.M
Sample Name: CH060531-01B
Misc Info: MW-7L-052406
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

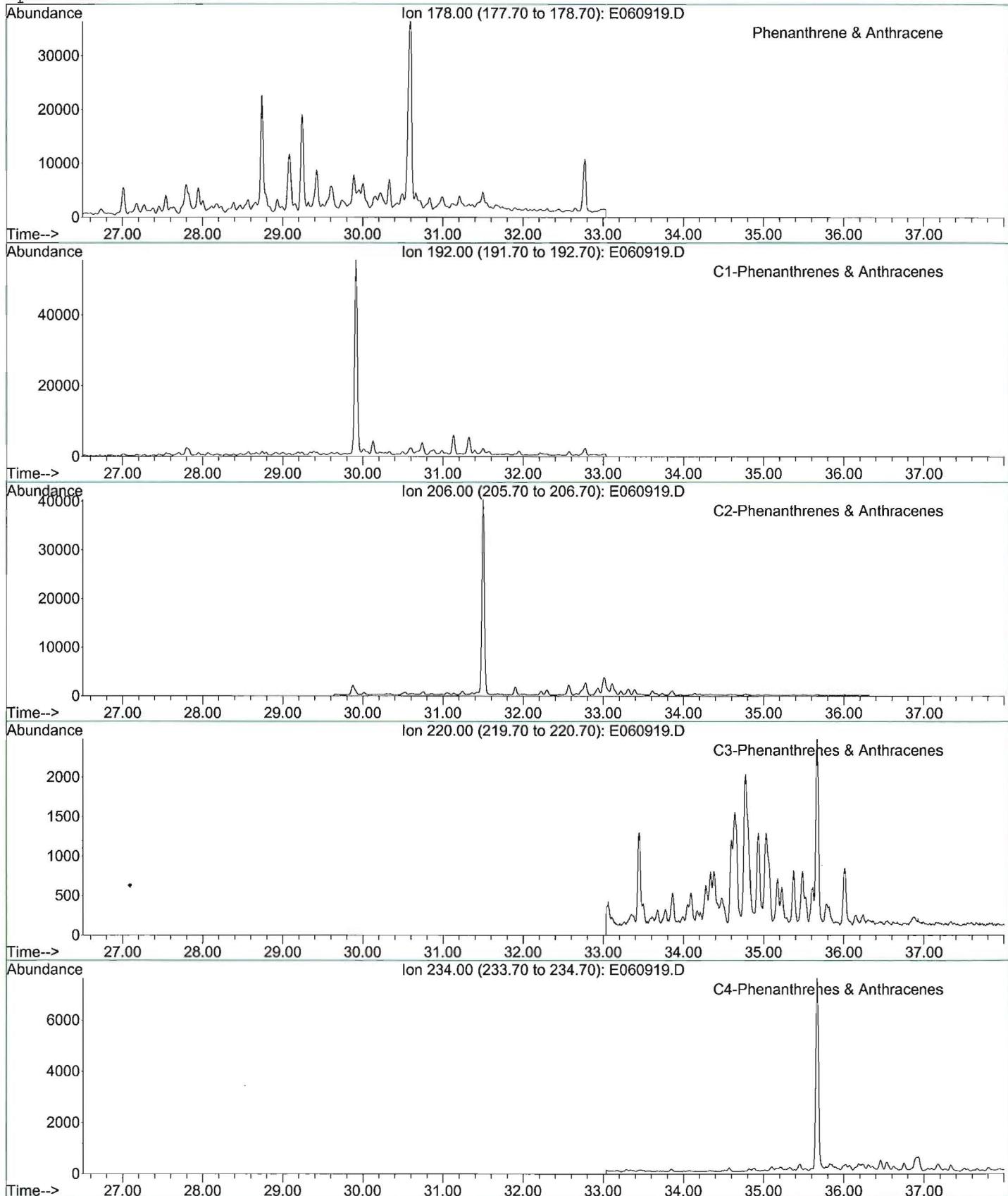
File: J:\1\DATA\E060609\E060919.D
Date Acquired: 11 Jun 2006 11:05 am
Method File: 4008SIM2.M
Sample Name: CH060531-01B
Misc Info: MW-7L-052406
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

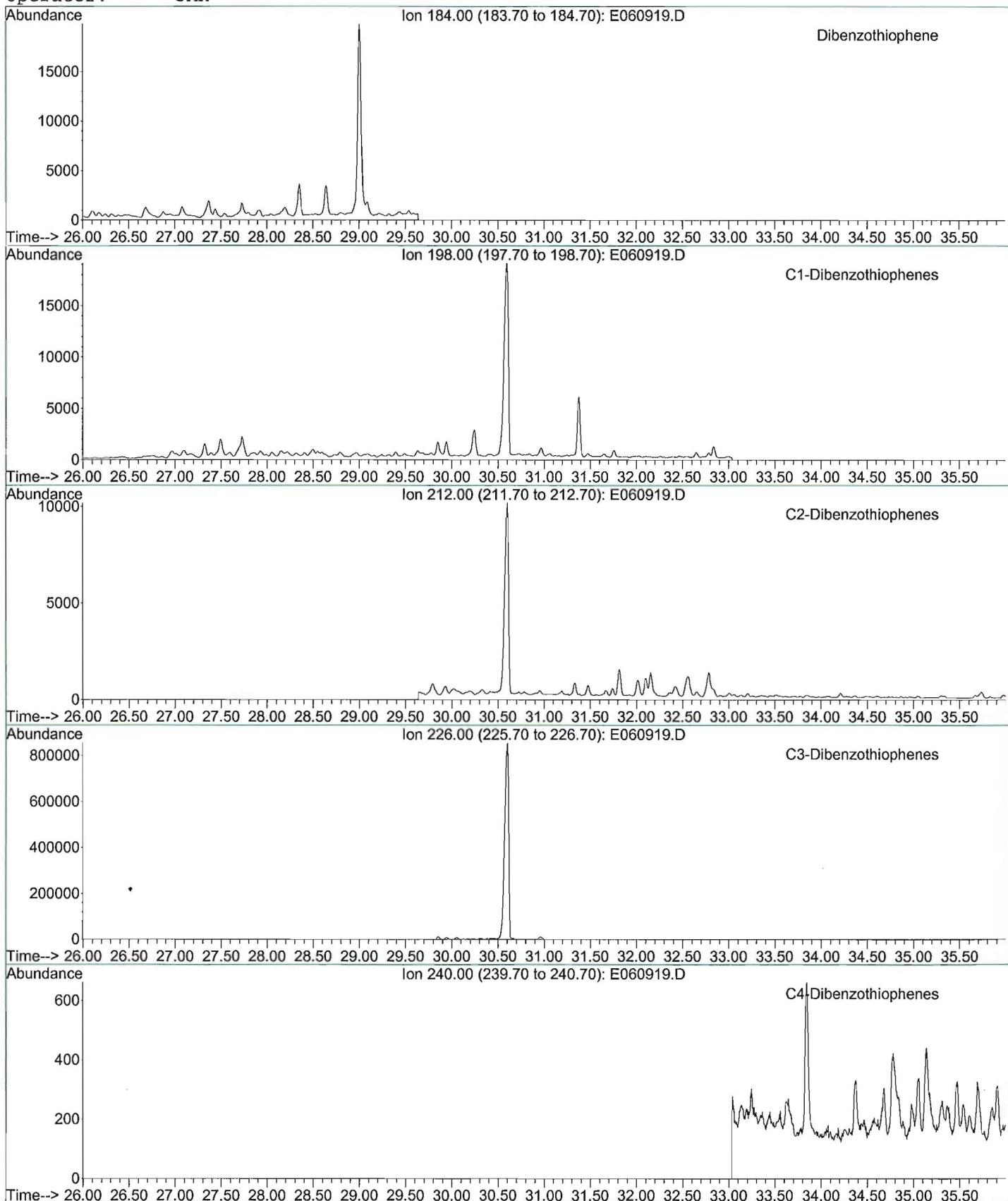
File: J:\1\DATA\E060609\E060919.D
Date Acquired: 11 Jun 2006 11:05 am
Method File: 4008SIM2.M
Sample Name: CH060531-01B
Misc Info: MW-7L-052406
Operator: JAR



META Environmental, Inc.

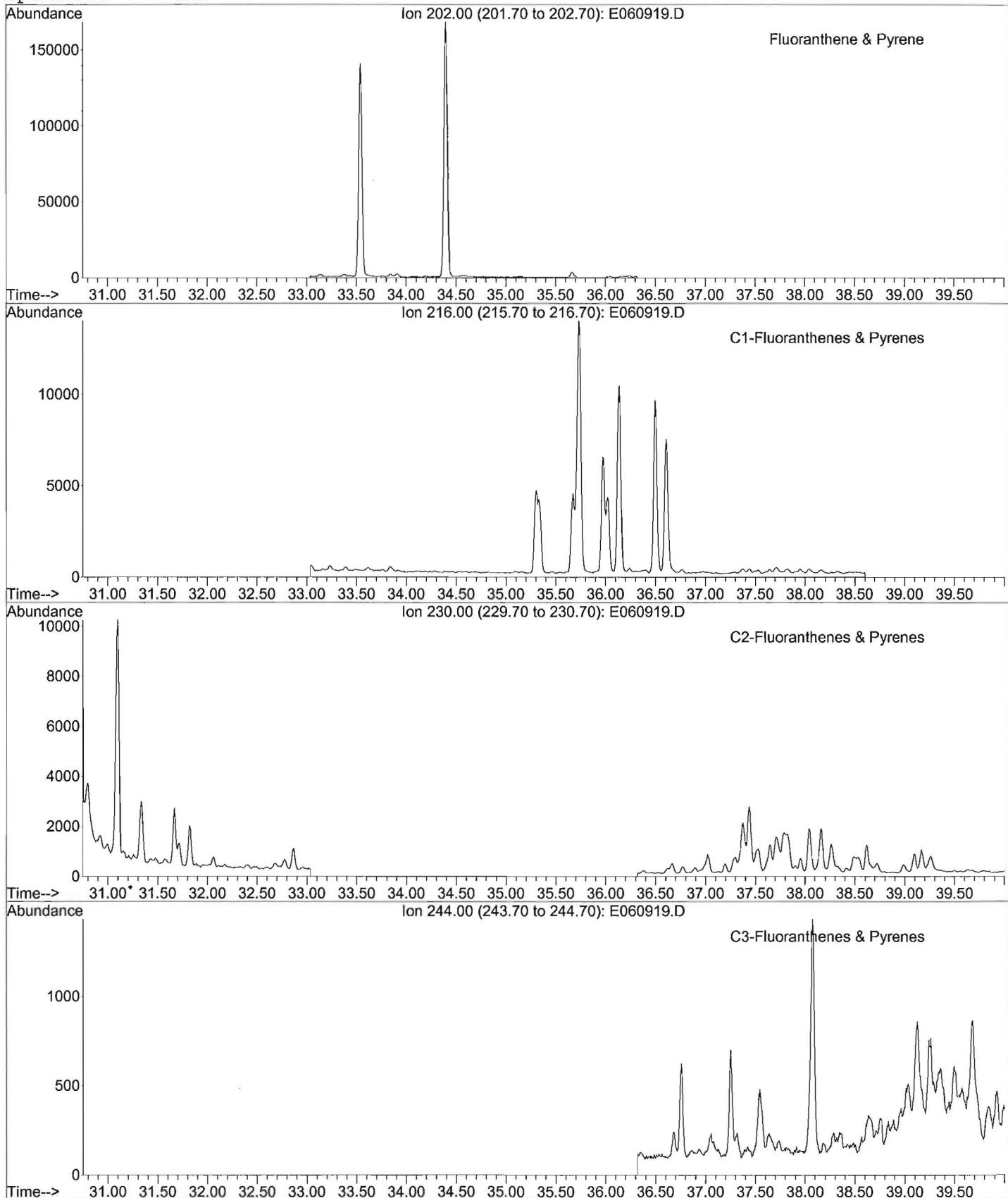
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E060609\E060919.D
Date Acquired: 11 Jun 2006 11:05 am
Method File: 4008SIM2.M
Sample Name: CH060531-01B
Misc Info: MW-7L-052406
Operator: JAR



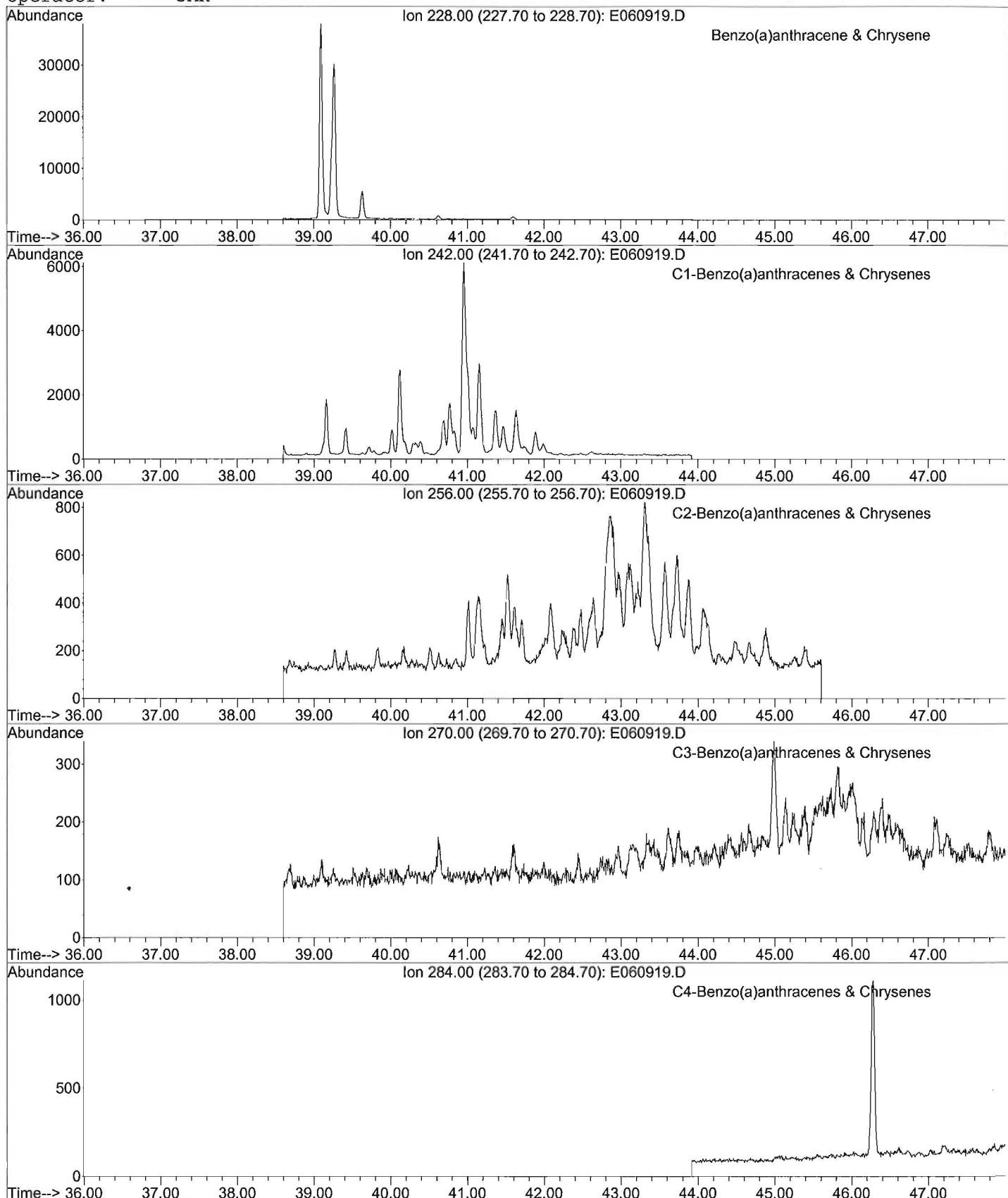
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E060609\E060919.D
Date Acquired: 11 Jun 2006 11:05 am
Method File: 4008SIM2.M
Sample Name: CH060531-01B
Misc Info: MW-7L-052406
Operator: JAR



GC/MS EXTRACTED ION CHROMATOGRAM

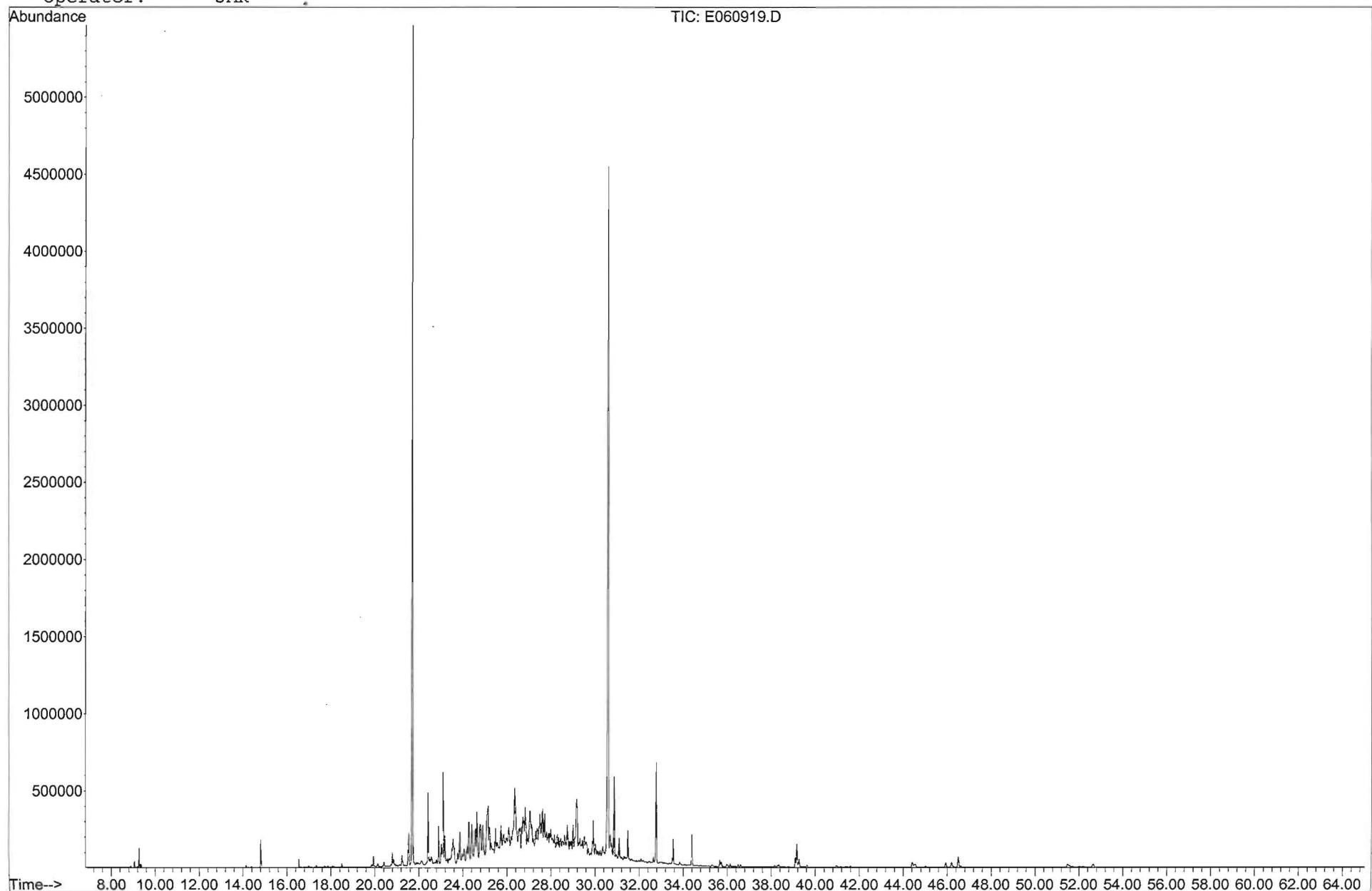
File: J:\1\DATA\E060609\E060919.D
Date Acquired: 11 Jun 2006 11:05 am
Method File: 4008SIM2.M
Sample Name: CH060531-01B
Misc Info: MW-7L-052406
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

File: J:\1\DATA\E060609\E060919.D
Date Acquired: 11 Jun 2006 11:05 am
Method File: 4008SIM2.M
Sample Name: CH060531-01B
Misc Info: MW-7L-052406
Operator: JAR



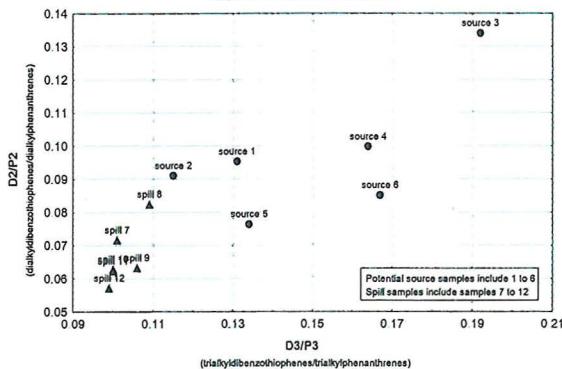
Environmental Forensic Report

Honeywell Quanta

SDG: PA031121



Figure 1. Double Ratio Plot



Report To:

Parsons

100 Summer Street, 8th Floor
Boston, MA 02110

Report By:

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

January 30, 2004

Identifying and allocating sources of pollutants in complex environments.

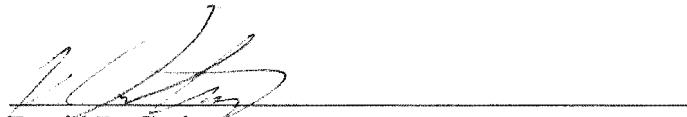
Final Laboratory Report

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

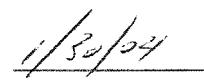
Phone: 617-923-4662
Fax: 617-923-4610
e-Mail: dcraig@metaenv.com

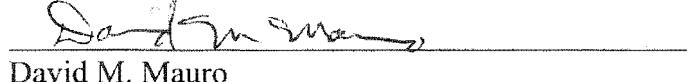
Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Director and Quality Assurance Officer, as verified by the following signatures.

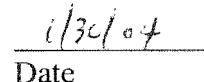

David R. Craig

Laboratory Director, META Environmental, Inc.


Date


David M. Mauro

Quality Assurance Officer, META Environmental, Inc.


Date

Sample Delivery Group Narrative

Project: Honeywell Quanta

Client: Parsons
100 Summer Street, 8th Floor
Boston, Massachusetts 02110

Report Contact: Mr. Paul Feshbach-Meriney

Date of Receipt: 11/21/03

Sample Summary:

The samples received for this project are summarized in the attached sample login forms.

META Project Number: P06010-60

Chain of Custody

Samples were received in good condition. The internal temperatures of the shipment containers were as follows:

Sample received 11/21/2003 6.0°C

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized 1 month after the release of this data report. Sample disposal will be documented.

Methods

The NAPL samples were prepared by waste dilution (EPA 3580) using dichloromethane (DCM). The extracts were spiked with internal standard and analyzed by GC/FID (EPA 8100 mod.) and GC/MS (EPA 8270 mod.).

Results

Sample results were presented in summary forms (CLP Form 1 equivalent) which follow this narrative.

Quality Control

Analyte Flags

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." No value was reported above the calibration range. Undetected analytes were flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

Holding Times

All samples were extracted within holding times. All samples and extracts were stored at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ prior to extraction and analysis. All extracts were analyzed within 40 days of sample preparation.

Blanks

No target analytes were present above the detection limits in the blank

Internal Standards

Internal standards were recovered within acceptable QC limits (50%-200%) relative to the continuing calibration standards.

Interpretation

Sample MW-104-D

This sample contained a pyrogenic substance (see definitions). The pattern of PAHs, especially the ratios of fluoranthene to pyrene and dibenzofuran to fluorene indicate that this sample contains coal tar. The presence of MAHs and the high concentration of naphthalene relative to heavier PAHs indicate that this material is relatively unweathered.

Sample SEEP-1

This sample contained low concentration of a pyrogenic substance. The patterns and ratios of PAHs indicate that this sample contains coal tar. The lack of MAHs and the reduced concentration of naphthalene relative to heavier PAHs indicate that this sample has been subject to mild to moderate weathering.

Sample SEEP-2

This sample contained a pyrogenic substance consistent with coal tar which has been subject to mild weathering.

Sample MW-105-D

This sample contained a pyrogenic substance consistent with unweathered coal tar.

Sample MW-102-D

This sample contained a pyrogenic substance consistent with unweathered coal tar.

Sample MW-103-D

This sample contained a pyrogenic substance consistent with unweathered coal tar.

Discussion

All the samples contained pyrogenic substances consistent with coal tar. The diagnostic ratios (Table 1 & Figure 1) and ion fingerprints (Appendix E) show some similarities and some substantial differences. Samples MW-102-D and MW-104-D have Fl/Py ratios close to 1, indicating a relatively low temperature process such as coal carbonization while the other four samples have substantially higher Fl/Py ratios indicative of higher temperature processes such as coke ovens. The samples appear to be from three separate sources, however the statistical significance of the ratio differences could not be assessed with this small sample set.

Definitions

Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remain following coal tar distillation.

References

- 1 "Chemical Source Attribution at Former MGP Sites," EPRI Report 1000728, December 2000.

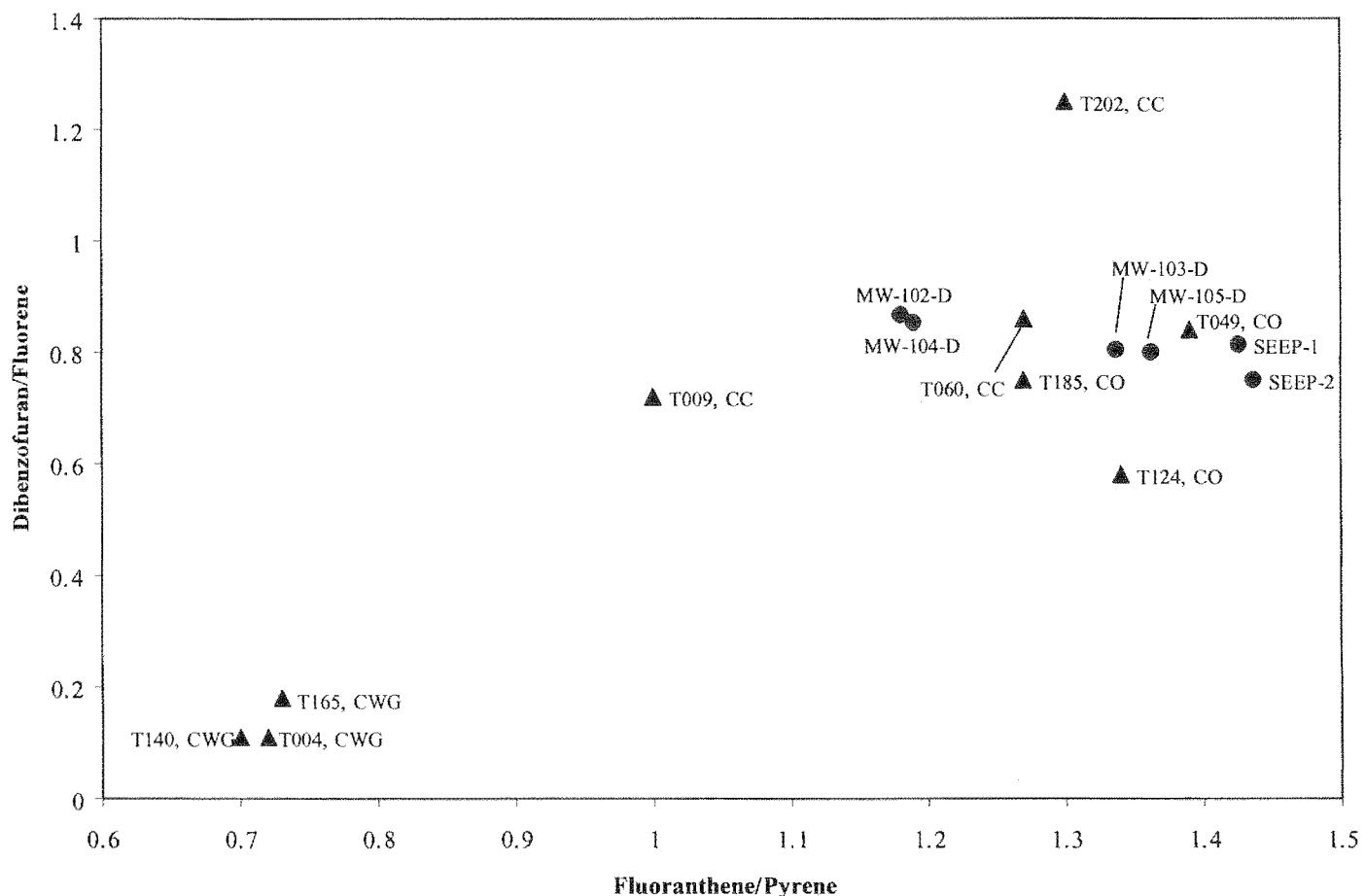
Table 1
Source and Weathering Ratios

| Sample | F1/Py | D/F | C17/Pris | C18/Phy | Pris/Phy | C3D/C3PA | C2D/C2PA |
|----------|-------|------|----------|---------|----------|----------|----------|
| MW-104-D | 1.19 | 0.85 | 1.44 | 3.90 | 2.94 | 0.31 | 0.15 |
| SEEP-1 | 1.42 | 0.81 | ND | ND | ND | ND | ND |
| SEEP-2 | 1.44 | 0.75 | 0.97 | 0.41 | 0.47 | 0.46 | 0.27 |
| MW-105-D | 1.36 | 0.80 | 0.50 | 0.30 | 0.69 | 0.64 | 0.32 |
| MW-102-D | 1.18 | 0.87 | 2.92 | 4.44 | 1.64 | 0.44 | 0.20 |
| MW-103-D | 1.34 | 0.80 | 1.85 | 3.09 | 1.91 | 0.50 | 0.25 |

Ratios:

- F1/Py fluoranthene/pyrene
- D/F dibenzofuran/fluorene
- C17/Pris septadecane/pristane
- C18/Phy octadecane/phytane
- Pris/Phy pristane/phytane
- C3D/C3PA trialkyldibenzothiophenes/trialkylphenanthrenes/anthracenes
- C2D/C2PA dialkyldibenzothiophenes/dialkylphenanthrenes/anthracenes

Figure 1
Selected Source Ratios



TXXX Tar Sample from META's in house source library
 CC Coal Carbonization Tar
 CO Coke Oven Tar
 CWG Carburetted Water Gas Tar
 ● Site Sample

Appendix A

Chains of Custody

META ENVIRONMENTAL SAMPLE RECEIPT

| Lab ID | Field ID | Matrix | Analysis | | | Date Sampled | Date Received | Client/Project | Container/Storage | Comments/Logger |
|-------------|----------|--------|-----------|------|--|--------------|---------------|----------------|-------------------|-----------------|
| PA031121-01 | MW-104-D | napl | 2512/4007 | 4008 | | 11/20/2003 | 11/21/2003 | P06009-60 | 40 MI Vial | |
| PA031121-02 | SEEP-1 | napl | 2512/4007 | 4008 | | 11/20/2003 | 11/21/2003 | P06009-60 | 16 oz. jar | |
| PA031121-03 | SEEP-2 | napl | 2512/4007 | 4008 | | 11/20/2003 | 11/21/2003 | P06009-60 | 16 oz. jar | |
| PA031121-04 | MW-105-D | napl | 2512/4007 | 4008 | | 11/20/2003 | 11/21/2003 | P06009-60 | 40 MI Vial | |
| PA031121-05 | MW-102-D | napl | 2512/4007 | 4008 | | 11/20/2003 | 11/21/2003 | P06009-60 | 40 MI Vial | |
| PA031121-06 | MW-103-D | napl | 2512/4007 | 4008 | | 11/20/2003 | 11/21/2003 | P06009-60 | 40 MI Vial | |

Brian 11/21/03

CHAIN OF CUSTODY RECORD

PROJECT NAME QUANTA RESOURCES (HONEYWELL)
 COMPANY PARSONS (BOSTON)
 ADDRESS 100 SUMNER SWAY, 8TH FLOOR
 PHONE (617) 457-7801

49 Clarendon Street
 Watertown, MA 02472
 TEL: (617) 923-4662
 FAX: (617) 923-4610



SAMPLED BY

Paul A. Kies

(Print Name)

Mike Wilkinson

(Print Name)

(Print Name)

Signature

Signature

Signature

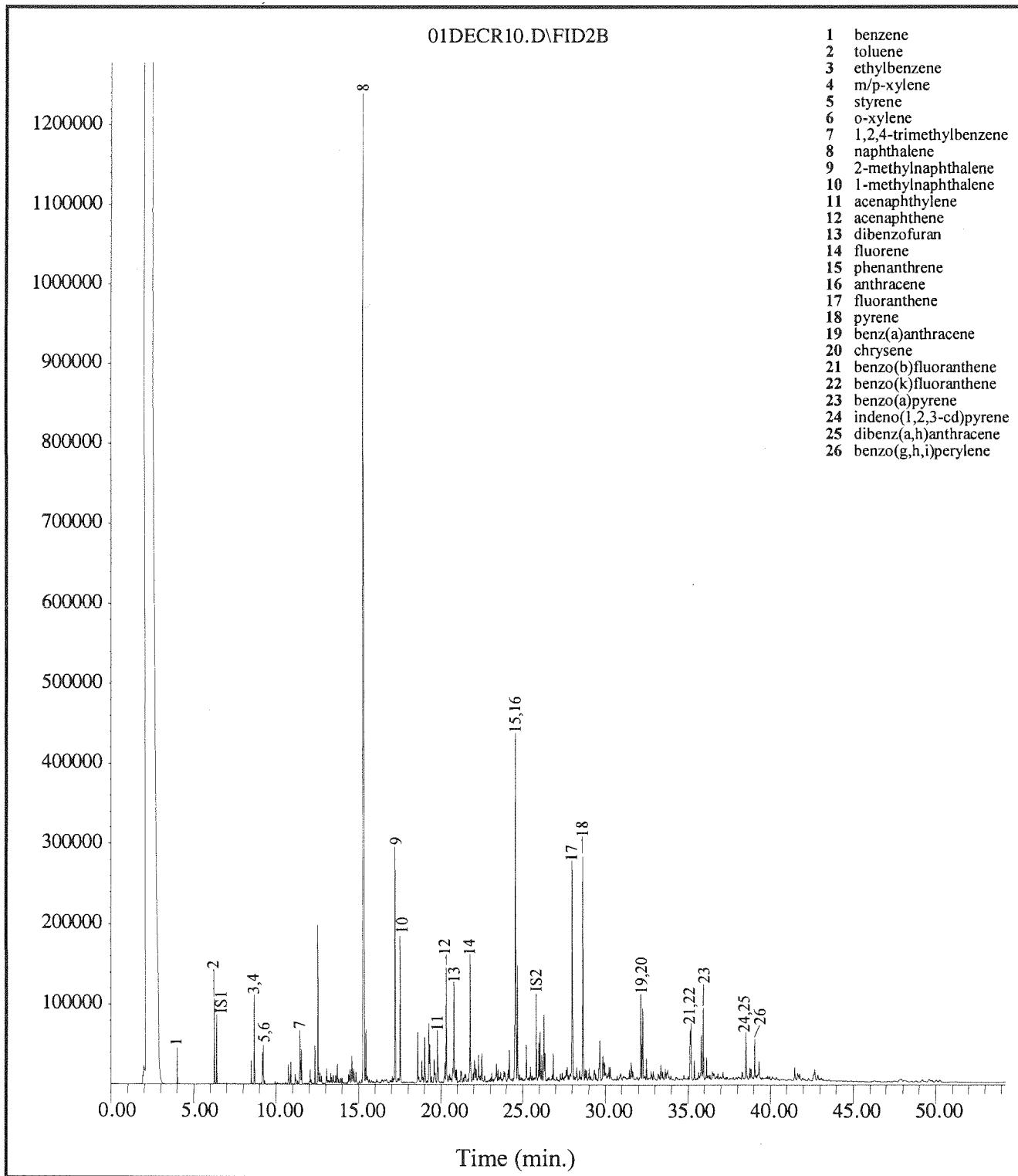
| SAMPLE NO. | DATE | TIME | SAMPLE LOCATION | CONTAINER | | NO. OF CONTAINERS | SAMPLE MATRIX | PRESERVATIVE | ANALYSES | | | | | | COMMENTS | |
|------------|------|------|-----------------|-----------|-----|-------------------|---------------|--------------|-----------------|-----------------|---------------------|-----------------|-----------------|-----------------|-----------------|-------------|
| | | | | SIZE | G/P | | | | EPA Method 8100 | EPA Method 8270 | EPA Method 8270 mol | EPA Method 8270 | EPA Method 8270 | EPA Method 8270 | EPA Method 8270 | |
| 11/2/03 | 1155 | | MW-104 - D | | | X | 1 | 012 | NONE | X X | | | | | | PA031121-01 |
| | 1230 | | SEEP - 1 | | | X | 1 | | | X X | | | | | | -02 |
| | 1300 | | SEEP - 2 | | | X | 1 | | | X X | | | | | | -03 |
| | 1325 | | MW-105 - D | | | X | 1 | | | X X | | | | | | -04 |
| | 1350 | | MW-102 - D | | | X | 1 | | | X X | | | | | | -05 |
| | 1410 | | MW-103 - D | | | X | 1 | | | X X | | | | | | -06 |

| | | | | | |
|--|---------------------------|--|-----------------|-----------|--|
| Relinquished by <i>Mark Meriney</i> | Date/Time 11/2/03 1500 | Received by Fed EX | Relinquished by | Date/Time | Received by |
| Relinquished by | Date/Time | Received by | Relinquished by | Date/Time | Received for Laboratory by <i>Ben Slaye</i> |
| Method of Shipment Fed EX | | Remarks <ul style="list-style-type: none"> - EPA method 8100 = Hydrocarbon fingerprint by GC/FID - EPA method 8270 mol = Extended Particulates (EPs) by GC/MS/ SIM <p>Contact: Paul Meriney (617)</p> | | | |

Appendix B

GC/FID Fingerprints

GC/FID Fingerprint



IS1 – 2,4-difluorotoluene

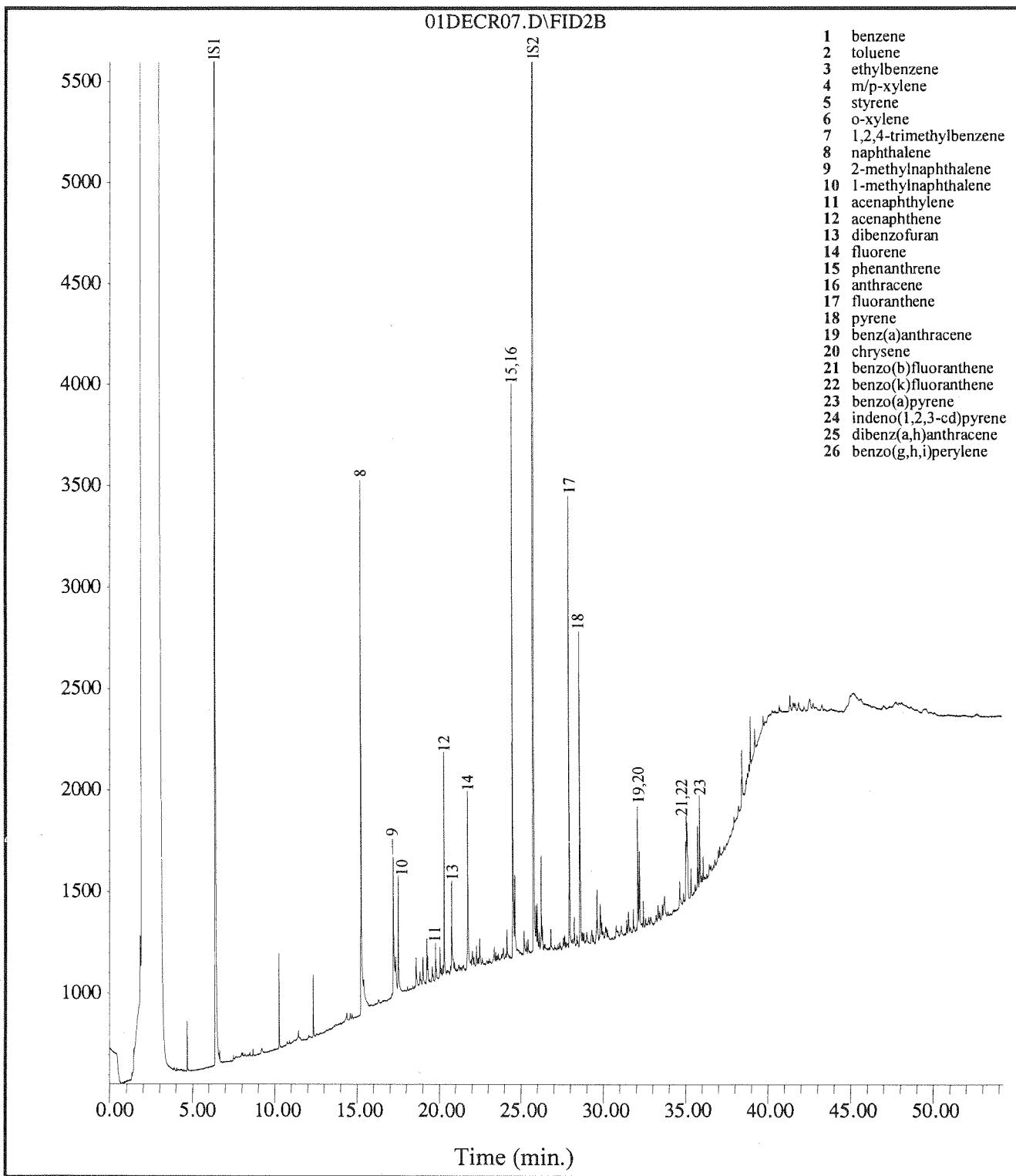
IS2 – o-terphenyl

Field ID: **MW-104-D**

Laboratory ID: PA031121-01

Method: METR4007P

GC/FID Fingerprint



IS1 – 2,4-difluorotoluene

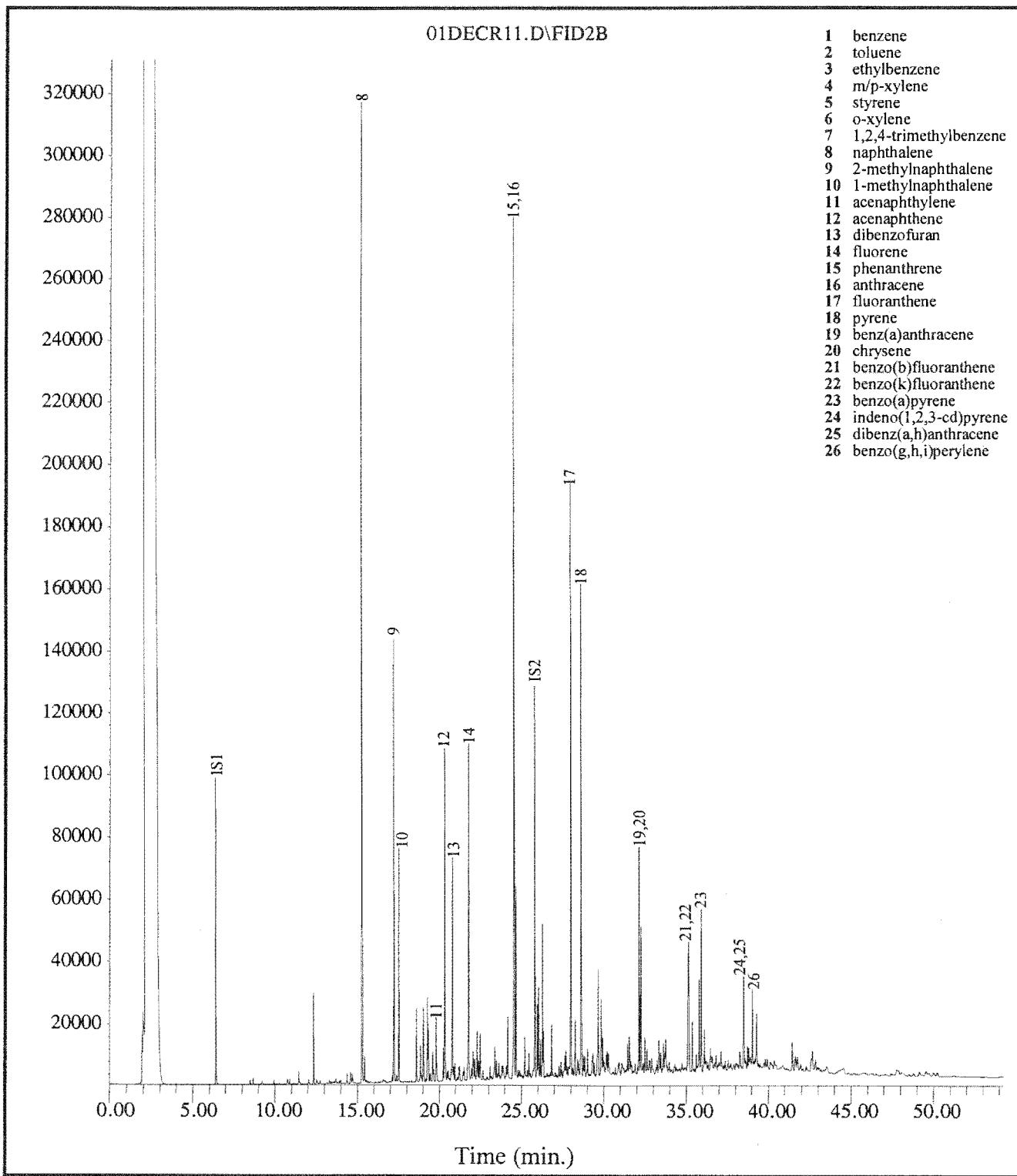
IS2 – o-terphenyl

Field ID: **SEEP-1**

Laboratory ID: PA031121-02

Method: METR4007P

GC/FID Fingerprint



IS1 – 2,4-difluorotoluene

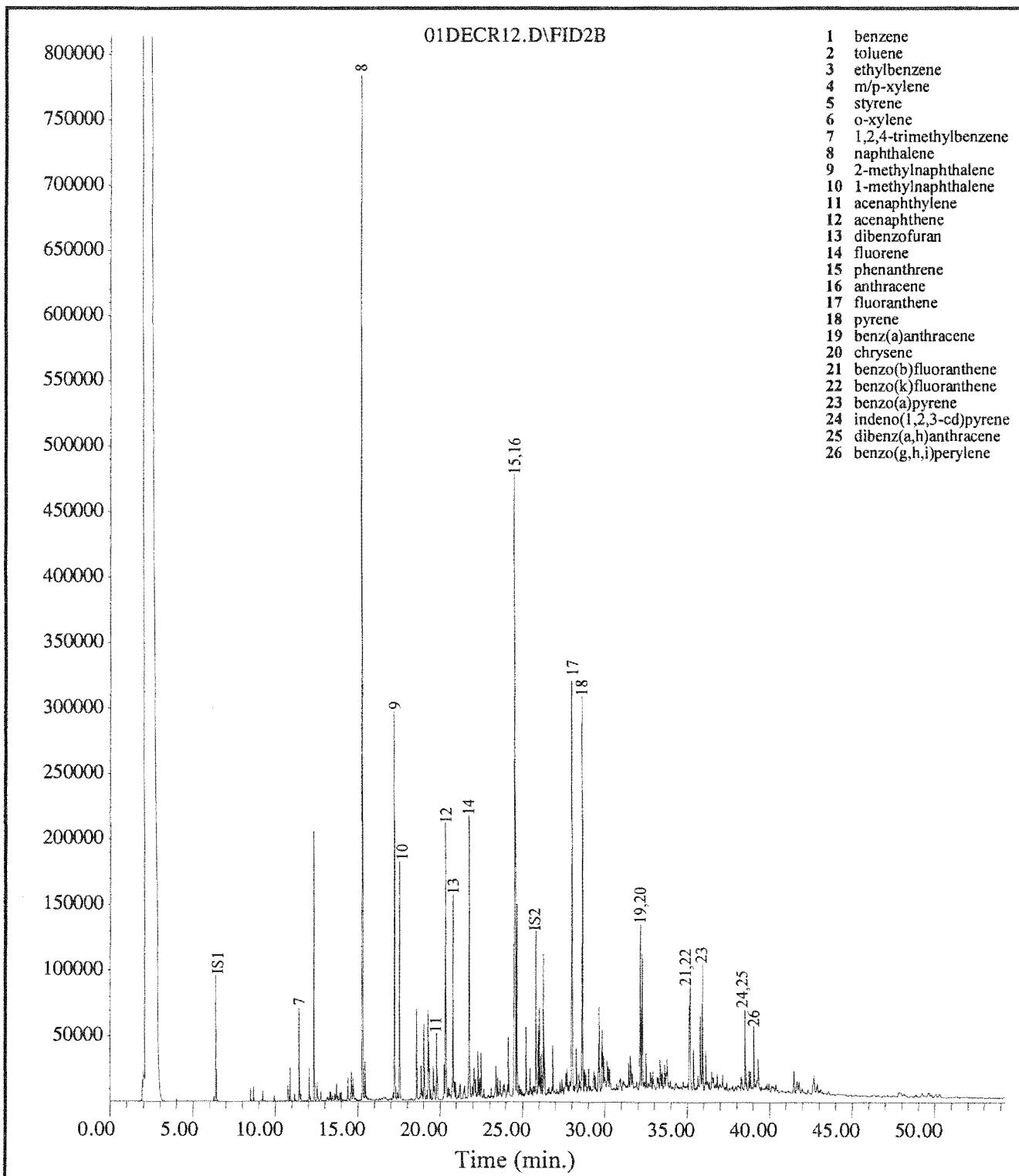
IS2 – *o*-terphenyl

Field ID: **SEEP-2**

Laboratory ID: PA031121-03

Method: METR4007P

GC/FID Fingerprint



IS1 - 2,4-difluorotoluene

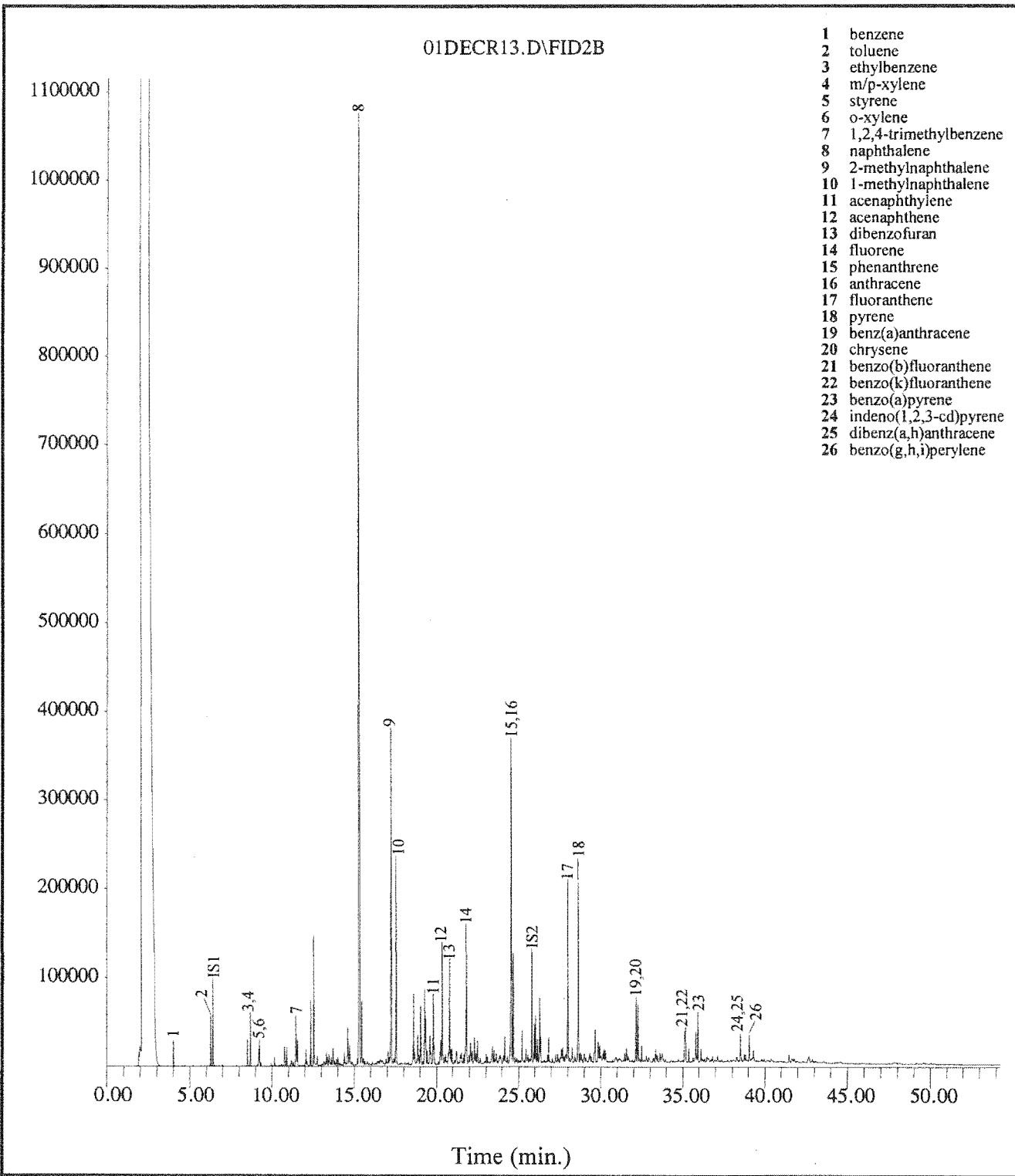
IS2 - o-terphenyl

Field ID: **MW-105-D**

Laboratory ID: PA031121-04

Method: METR4007P

GC/FID Fingerprint



IS1 - 2,4-difluorotoluene

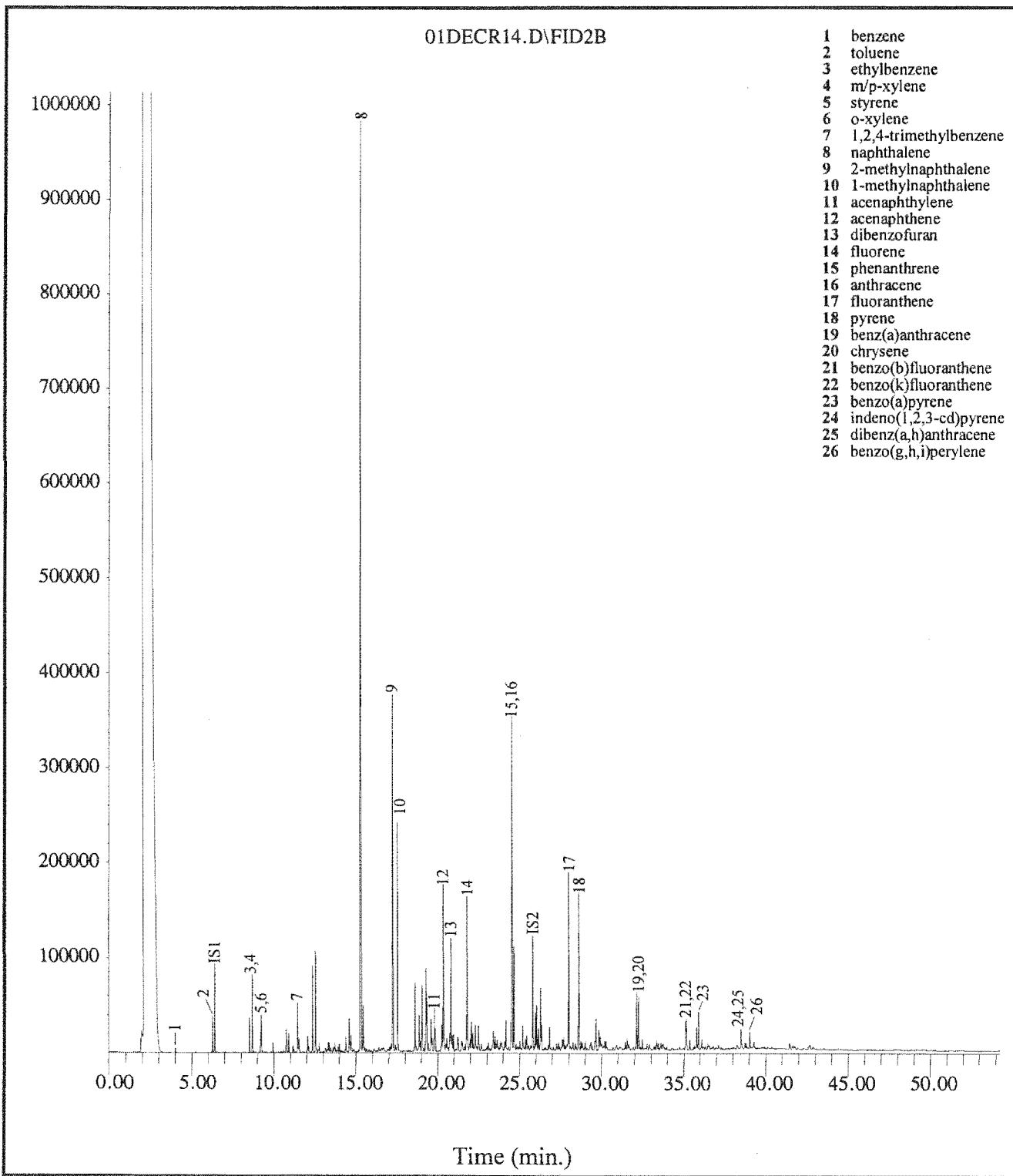
IS2 - o-terphenyl

Field ID: **MW-102-D**

Laboratory ID: PA031121-05

Method: METR4007P

GC/FID Fingerprint



Field ID: **MW-103-D**

Laboratory ID: PA031121-06

Method: METR4007P

Appendix C

Chemical Concentrations

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| | | | | | |
|------------------------|---------------------|-------------------------------|-----------------------|--------------------|---------------------|
| Field ID: | MW-104-D | Preparation Method: | EPA3580 | | |
| | | Cleanup Method(s): | | | |
| Client: | Parsons | Analysis Method: | GC/MS (EPA 8270 Mod.) | | |
| Project: | Quanta | Matrix: | napl | | |
| Lab ID: | PA031121-01 1:10 | Preservation: | None | | |
| File ID: | 11DEC22.D | Decanted: | None | | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0181 | g | |
| Date Received: | 11/21/2003 | %Solid: | 100% | | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL | |
| Date Cleanup: | | Prep DF: | 10 | | |
| Date Analyzed: | 12 Dec 2003 4:21 pm | Analysis DF: | 1 | | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL | |
| Operator: | EC | Batch QC: | ML031128-MB | | |
| Analyte: | | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg |
| PAH COMPOUNDS: | | | | | |
| Benzene | | 2,010 | | 110 | 55.2 |
| Toluene | | 4,550 | | 110 | 55.2 |
| Ethylbenzene | | 1,240 | | 110 | 55.2 |
| m/p-Xylenes | | 5,180 | | 110 | 55.2 |
| Styrene | | 1,510 | | 110 | 55.2 |
| o-Xylene | | 2,050 | | 110 | 55.2 |
| 1,2,4-Trimethylbenzene | | 145 | | 110 | 55.2 |
| Naphthalene | | 87,200 | | 110 | 55.2 |
| 2-Methylnaphthalene | | 16,500 | | 110 | 55.2 |
| 1-Methylnaphthalene | | 8,960 | | 110 | 55.2 |
| Acenaphthylene | | 2,560 | | 110 | 55.2 |
| Acenaphthene | | 6,780 | | 110 | 55.2 |
| Dibenzofuran | | 6,930 | | 110 | 55.2 |
| Fluorene | | 8,120 | | 110 | 55.2 |
| Phenanthrene | | 30,200 | | 110 | 55.2 |
| Anthracene | | 6,640 | | 110 | 55.2 |
| Fluoranthene | | 20,100 | | 110 | 55.2 |
| Pyrene | | 16,900 | | 110 | 55.2 |
| Benz[a]anthracene | | 9,130 | | 110 | 55.2 |
| Chrysene | | 7,730 | | 110 | 55.2 |
| Benzo[b]fluoranthene | | 6,800 | | 110 | 55.2 |
| Benzo[k]fluoranthene | | 7,230 | | 110 | 55.2 |
| Benzo(e)pyrene | | 5,430 | | 110 | 55.2 |
| Benzo[a]pyrene | | 8,860 | | 110 | 55.2 |
| Perylene | | 2,060 | | 110 | 55.2 |
| Indeno[1,2,3-cd]pyrene | | 3,510 | | 110 | 55.2 |
| Dibenz[a,h]anthracene | | 773 | | 110 | 55.2 |
| Benzo[g,h,i]perylene | | 3,370 | | 110 | 55.2 |
| ALKYLATED PAHs: | | | | | |
| C0 - Benzene | | 2,010 | | 110 | 55.2 |
| C1 - Benzene | | 4,910 | | 110 | 55.2 |
| C2 - Benzene | | 8,850 | | 110 | 55.2 |
| C3 - Benzene | | 7,180 | | 110 | 55.2 |
| C4 - Benzene | | 2,620 | | 110 | 55.2 |
| C5 - Benzene | | 555 | | 110 | 55.2 |
| C0 - Naphthalene | | 87,200 | | 110 | 55.2 |
| C1 - Naphthalene | | 14,800 | | 110 | 55.2 |
| C2 - Naphthalene | | 6,290 | | 110 | 55.2 |
| C3 - Naphthalene | | 1,530 | | 110 | 55.2 |
| C4 - Naphthalene | | 413 | | 110 | 55.2 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| | | | | |
|------------------|---------------------|----------------------------|-----------------------|----|
| Field ID: | MW-104-D | Preparation Method: | EPA3580 | |
| | | Cleanup Method(s): | | |
| Client: | Parsons | Analysis Method: | GC/MS (EPA 8270 Mod.) | |
| Project: | Quanta | Matrix: | napl | |
| Lab ID: | PA031121-01 1:10 | Preservation: | None | |
| File ID: | 11DEC22.D | Decanted: | None | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0181 | g |
| Date Received: | 11/21/2003 | %Solid: | 100% | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL |
| Date Cleanup: | | Prep DF: | 10 | |
| Date Analyzed: | 12 Dec 2003 4:21 pm | Analysis DF: | 1 | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL |
| Operator: | EC | Batch QC: | ML031128-MB | |

| Analyte: | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg | Comments |
|---------------------------------|------------------------|---|-------------|--------------|----------|
| C0 - Fluorene | 8,120 | | 110 | 55.2 | |
| C1 - Fluorene | 2,020 | | 110 | 55.2 | |
| C2 - Fluorene | 548 | | 110 | 55.2 | |
| C3 - Fluorene | 341 | | 110 | 55.2 | |
| C0 - Phenanthrene/Anthracene | 36,900 | | 110 | 55.2 | |
| C1 - Phenanthrene/Anthracene | 6,750 | | 110 | 55.2 | |
| C2 - Phenanthrene/Anthracene | 2,010 | | 110 | 55.2 | |
| C3 - Phenanthrene/Anthracene | 495 | | 110 | 55.2 | |
| C4 - Phenanthrene/Anthracene | 140 | | 110 | 55.2 | |
| C0 - Dibenzothiophene | 1,830 | | 110 | 55.2 | |
| C1 - Dibenzothiophene | 764 | | 110 | 55.2 | |
| C2 - Dibenzothiophene | 306 | | 110 | 55.2 | |
| C3 - Dibenzothiophene | 153 | | 110 | 55.2 | |
| C0 - Fluoranthene/Pyrene | 38,300 | | 110 | 55.2 | |
| C1 - Fluoranthene/Pyrene | 6,660 | | 110 | 55.2 | |
| C2 - Fluoranthene/Pyrene | 1,460 | | 110 | 55.2 | |
| C3 - Fluoranthene/Pyrene | 428 | | 110 | 55.2 | |
| C0 - Benz(a)anthracene/Chrysene | 16,600 | | 110 | 55.2 | |
| C1 - Benz(a)anthracene/Chrysene | 2,340 | | 110 | 55.2 | |
| C2 - Benz(a)anthracene/Chrysene | 653 | | 110 | 55.2 | |
| C3 - Benz(a)anthracene/Chrysene | 184 | | 110 | 55.2 | |
| C4 - Benz(a)anthracene/Chrysene | 76.0 | J | 110 | 55.2 | |

EXTRACTION SURROGATE COMPOUNDS:

| | %R | Min | Max |
|--------------------|------------|-----|------|
| Fluorobenzene | Not Spiked | 50% | 150% |
| 2-Fluorobiphenyl | Not Spiked | 50% | 120% |
| 5a-Androstane | Not Spiked | 50% | 120% |
| Benzo(a)pyrene-d12 | Not Spiked | 50% | 120% |

Qualifiers:

- B Analyte detected in the blank
- D Analyte reported from a diluted extract
- U Undetected above the detection limit
- J Estimated value detected between the reporting and detection limits
- E Estimated value detected above calibration range
- RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL Estimated detection limit is 50% of the RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| Field ID: | SEEP-1 | Preparation Method: | EPA3580 | | |
|------------------------|---------------------|------------------------|-----------------------|-------------|--------------|
| | | Cleanup Method(s): | | | |
| Client: | Parsons | Analysis Method: | GC/MS (EPA 8270 Mod.) | | |
| Project: | Quanta | Matrix: | napl | | |
| Lab ID: | PA031121-02 | Preservation: | None | | |
| File ID: | 11DEC21.D | Decanted: | None | | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0186 | g | |
| Date Received: | 11/21/2003 | %Solid: | 100% | | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL | |
| Date Cleanup: | | Prep DF: | 1 | | |
| Date Analyzed: | 12 Dec 2003 2:39 pm | Analysis DF: | 1 | | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL | |
| Operator: | EC | Batch QC: | ML031128-MB | | |
| Analyte: | | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg |
| PAH COMPOUNDS: | | | | | |
| Benzene | | | U | 10.8 | 5.38 |
| Toluene | | | U | 10.8 | 5.38 |
| Ethylbenzene | | | U | 10.8 | 5.38 |
| m/p-Xylenes | | | U | 10.8 | 5.38 |
| Styrene | | | U | 10.8 | 5.38 |
| o-Xylene | | | U | 10.8 | 5.38 |
| 1,2,4-Trimethylbenzene | | | U | 10.8 | 5.38 |
| Naphthalene | | 215 | | 10.8 | 5.38 |
| 2-Methylnaphthalene | | 66.5 | | 10.8 | 5.38 |
| 1-Methylnaphthalene | | 33.0 | | 10.8 | 5.38 |
| Acenaphthylene | | | U | 10.8 | 5.38 |
| Acenaphthene | | 44.8 | | 10.8 | 5.38 |
| Dibenzofuran | | 36.3 | | 10.8 | 5.38 |
| Fluorene | | 44.6 | | 10.8 | 5.38 |
| Phenanthrene | | 154 | | 10.8 | 5.38 |
| Anthracene | | 22.8 | | 10.8 | 5.38 |
| Fluoranthene | | 113 | | 10.8 | 5.38 |
| Pyrene | | 79.3 | | 10.8 | 5.38 |
| Benz[a]anthracene | | 33.9 | | 10.8 | 5.38 |
| Chrysene | | 26.3 | | 10.8 | 5.38 |
| Benz[b]fluoranthene | | 21.3 | | 10.8 | 5.38 |
| Benz[k]fluoranthene | | 22.8 | | 10.8 | 5.38 |
| Benzo(e)pyrene | | 16.6 | | 10.8 | 5.38 |
| Benzo[a]pyrene | | 23.5 | | 10.8 | 5.38 |
| Perylene | | 5.39 | J | 10.8 | 5.38 |
| Indeno[1,2,3-cd]pyrene | | 9.10 | J | 10.8 | 5.38 |
| Dibenz[a,h]anthracene | | | U | 10.8 | 5.38 |
| Benzo[g,h,i]perylene | | 9.14 | J | 10.8 | 5.38 |
| ALKYLATED PAHs: | | | | | |
| C0 - Benzene | | | U | 10.8 | 5.38 |
| C1 - Benzene | | | U | 10.8 | 5.38 |
| C2 - Benzene | | | U | 10.8 | 5.38 |
| C3 - Benzene | | 5.87 | J | 10.8 | 5.38 |
| C4 - Benzene | | | U | 10.8 | 5.38 |
| C5 - Benzene | | | U | 10.8 | 5.38 |
| C0 - Naphthalene | | 215 | | 10.8 | 5.38 |
| C1 - Naphthalene | | 58.5 | | 10.8 | 5.38 |
| C2 - Naphthalene | | 17.8 | | 10.8 | 5.38 |
| C3 - Naphthalene | | | U | 10.8 | 5.38 |
| C4 - Naphthalene | | | U | 10.8 | 5.38 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| | | | | | |
|---------------------------|---------------------|----------------------------|-----------------------|----|--|
| Field ID: | SEEP-1 | Preparation Method: | EPA3580 | | |
| Cleanup Method(s): | | | | | |
| Client: | Parsons | Analysis Method: | GC/MS (EPA 8270 Mod.) | | |
| Project: | Quanta | Matrix: | napl | | |
| Lab ID: | PA031121-02 | Preservation: | None | | |
| File ID: | 11DEC21.D | Decanted: | None | | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0186 | g | |
| Date Received: | 11/21/2003 | %Solid: | 100% | | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL | |
| Date Cleanup: | | Prep DF: | 1 | | |
| Date Analyzed: | 12 Dec 2003 2:39 pm | Analysis DF: | 1 | | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL | |
| Operator: | EC | Batch QC: | ML031128-MB | | |

| Analyte: | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg | Comments |
|---------------------------------|------------------------|---|-------------|--------------|----------|
| C0 - Fluorene | 44.6 | | 10.8 | 5.38 | |
| C1 - Fluorene | 6.09 | J | 10.8 | 5.38 | |
| C2 - Fluorene | | U | 10.8 | 5.38 | |
| C3 - Fluorene | | U | 10.8 | 5.38 | |
| C0 - Phenanthrene/Anthracene | 175 | | 10.8 | 5.38 | |
| C1 - Phenanthrene/Anthracene | 22.6 | | 10.8 | 5.38 | |
| C2 - Phenanthrene/Anthracene | 5.92 | J | 10.8 | 5.38 | |
| C3 - Phenanthrene/Anthracene | | U | 10.8 | 5.38 | |
| C4 - Phenanthrene/Anthracene | | U | 10.8 | 5.38 | |
| C0 - Dibenzothiophene | 7.87 | J | 10.8 | 5.38 | |
| C1 - Dibenzothiophene | 12.5 | | 10.8 | 5.38 | |
| C2 - Dibenzothiophene | | U | 10.8 | 5.38 | |
| C3 - Dibenzothiophene | | U | 10.8 | 5.38 | |
| C0 - Fluoranthene/Pyrene | 199 | | 10.8 | 5.38 | |
| C1 - Fluoranthene/Pyrene | 26.5 | | 10.8 | 5.38 | |
| C2 - Fluoranthene/Pyrene | | U | 10.8 | 5.38 | |
| C3 - Fluoranthene/Pyrene | | U | 10.8 | 5.38 | |
| C0 - Benz(a)anthracene/Chrysene | 59.1 | | 10.8 | 5.38 | |
| C1 - Benz(a)anthracene/Chrysene | 6.05 | J | 10.8 | 5.38 | |
| C2 - Benz(a)anthracene/Chrysene | | U | 10.8 | 5.38 | |
| C3 - Benz(a)anthracene/Chrysene | | U | 10.8 | 5.38 | |
| C4 - Benz(a)anthracene/Chrysene | | U | 10.8 | 5.38 | |

EXTRACTION SURROGATE COMPOUNDS:

| | %R | Min | Max |
|--------------------|------------|-----|------|
| Fluorobenzene | Not Spiked | 50% | 150% |
| 2-Fluorobiphenyl | Not Spiked | 50% | 120% |
| 5a-Androstan | Not Spiked | 50% | 120% |
| Benzo(a)pyrene-d12 | Not Spiked | 50% | 120% |

Qualifiers:

| | |
|-----|---|
| B | Analyte detected in the blank |
| D | Analyte reported from a diluted extract |
| U | Undetected above the detection limit |
| J | Estimated value detected between the reporting and detection limits |
| E | Estimated value detected above calibration range |
| RL | Reporting limit is the sample equivalent of the lowest linear calibration concentration |
| EDL | Estimated detection limit is 50% of the RL |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| | | | | | |
|------------------------|---------------------|------------------------|-----------------------|-------------|--------------|
| Field ID: | SEEP-2 | Preparation Method: | EPA3580 | | |
| | | Cleanup Method(s): | | | |
| Client: | Parson | Analysis Method: | GC/MS (EPA 8270 Mod.) | | |
| Project: | Quanta | Matrix: | NAPL | | |
| Lab ID: | PA031121-03 1:10 | Preservation: | None | | |
| File ID: | 15DEC03.D | Decanted: | No | | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0107 | g | |
| Date Received: | 11/21/2003 | %Solid: | 100% | | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL | |
| Date Cleanup: | | Prep DF: | 10 | | |
| Date Analyzed: | 15 Dec 2003 5:00 pm | Analysis DF: | 1 | | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL | |
| Operator: | EC | Batch QC: | ML031128-MB | | |
| Analyte: | | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg |
| PAH COMPOUNDS: | | | | | |
| Benzene | | | U | 187 | 93.5 |
| Toluene | | | U | 187 | 93.5 |
| Ethylbenzene | | 99.9 | J | 187 | 93.5 |
| m/p-Xylenes | | 155 | J | 187 | 93.5 |
| Styrene | | 304 | | 187 | 93.5 |
| o-Xylene | | | U | 187 | 93.5 |
| 1,2,4-Trimethylbenzene | | | U | 187 | 93.5 |
| Naphthalene | | 28,200 | | 187 | 93.5 |
| 2-Methylnaphthalene | | 12,800 | | 187 | 93.5 |
| 1-Methylnaphthalene | | 6,190 | | 187 | 93.5 |
| Acenaphthylene | | 728 | | 187 | 93.5 |
| Acenaphthene | | 9,230 | | 187 | 93.5 |
| Dibenzofuran | | 7,190 | | 187 | 93.5 |
| Fluorene | | 9,580 | | 187 | 93.5 |
| Phenanthrene | | 29,300 | | 187 | 93.5 |
| Anthracene | | 4,900 | | 187 | 93.5 |
| Fluoranthene | | 19,100 | | 187 | 93.5 |
| Pyrene | | 13,300 | | 187 | 93.5 |
| Benz[a]anthracene | | 5,990 | | 187 | 93.5 |
| Chrysene | | 4,250 | | 187 | 93.5 |
| Benzo[b]fluoranthene | | 3,080 | | 187 | 93.5 |
| Benzo[k]fluoranthene | | 3,550 | | 187 | 93.5 |
| Benzo(e)pyrene | | 2,300 | | 187 | 93.5 |
| Benzo[a]pyrene | | 3,940 | | 187 | 93.5 |
| Perylene | | 839 | | 187 | 93.5 |
| Indeno[1,2,3-cd]pyrene | | 1,900 | | 187 | 93.5 |
| Dibenz[a,h]anthracene | | 467 | | 187 | 93.5 |
| Benzo[g,h,i]perylene | | 1,890 | | 187 | 93.5 |
| ALKYLATED PAHs: | | | | | |
| C0 - Benzene | | | U | 187 | 93.5 |
| C1 - Benzene | | | U | 187 | 93.5 |
| C2 - Benzene | | 397 | | 187 | 93.5 |
| C3 - Benzene | | 891 | | 187 | 93.5 |
| C4 - Benzene | | 597 | | 187 | 93.5 |
| C5 - Benzene | | 128 | J | 187 | 93.5 |
| C0 - Naphthalene | | 28,200 | | 187 | 93.5 |
| C1 - Naphthalene | | 11,200 | | 187 | 93.5 |
| C2 - Naphthalene | | 4,100 | | 187 | 93.5 |
| C3 - Naphthalene | | 925 | | 187 | 93.5 |
| C4 - Naphthalene | | 241 | | 187 | 93.5 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| | | | | |
|------------------|---------------------|----------------------------|-----------------------|----|
| Field ID: | SEEP-2 | Preparation Method: | EPA3580 | |
| | | Cleanup Method(s): | | |
| Client: | Parson | Analysis Method: | GC/MS (EPA 8270 Mod.) | |
| Project: | Quanta | Matrix: | NAPL | |
| Lab ID: | PA031121-03 1:10 | Preservation: | None | |
| File ID: | 15DEC03.D | Decanted: | No | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0107 | g |
| Date Received: | 11/21/2003 | %Solid: | 100% | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL |
| Date Cleanup: | | Prep DF: | 10 | |
| Date Analyzed: | 15 Dec 2003 5:00 pm | Analysis DF: | 1 | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL |
| Operator: | EC | Batch QC: | ML031128-MB | |

| Analyte: | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg | Comments |
|---------------------------------|------------------------|---|-------------|--------------|----------|
| C0 - Fluorene | 9,580 | | 187 | 93.5 | |
| C1 - Fluorene | 1,650 | | 187 | 93.5 | |
| C2 - Fluorene | 392 | | 187 | 93.5 | |
| C3 - Fluorene | 222 | | 187 | 93.5 | |
| C0 - Phenanthrene/Anthracene | 34,200 | | 187 | 93.5 | |
| C1 - Phenanthrene/Anthracene | 5,090 | | 187 | 93.5 | |
| C2 - Phenanthrene/Anthracene | 1,390 | | 187 | 93.5 | |
| C3 - Phenanthrene/Anthracene | 353 | | 187 | 93.5 | |
| C4 - Phenanthrene/Anthracene | | U | 187 | 93.5 | |
| C0 - Dibenzothiophene | 1,740 | | 187 | 93.5 | |
| C1 - Dibenzothiophene | 780 | | 187 | 93.5 | |
| C2 - Dibenzothiophene | 375 | | 187 | 93.5 | |
| C3 - Dibenzothiophene | 162 | J | 187 | 93.5 | |
| C0 - Fluoranthene/Pyrene | 33,700 | | 187 | 93.5 | |
| C1 - Fluoranthene/Pyrene | 5,340 | | 187 | 93.5 | |
| C2 - Fluoranthene/Pyrene | 1,260 | | 187 | 93.5 | |
| C3 - Fluoranthene/Pyrene | 229 | | 187 | 93.5 | |
| C0 - Benz(a)anthracene/Chrysene | 9,940 | | 187 | 93.5 | |
| C1 - Benz(a)anthracene/Chrysene | 1,140 | | 187 | 93.5 | |
| C2 - Benz(a)anthracene/Chrysene | 285 | | 187 | 93.5 | |
| C3 - Benz(a)anthracene/Chrysene | 113 | J | 187 | 93.5 | |
| C4 - Benz(a)anthracene/Chrysene | | U | 187 | 93.5 | |

EXTRACTION SURROGATE COMPOUNDS:

| | %R | Min | Max |
|--------------------|------------|-----|------|
| Fluorobenzene | Not Spiked | 50% | 150% |
| 2-Fluorobiphenyl | Not Spiked | 50% | 120% |
| 5a-Androstan | Not Spiked | 50% | 120% |
| Benzo(a)pyrene-d12 | Not Spiked | 50% | 120% |

Qualifiers:

| | |
|-----|---|
| B | Analyte detected in the blank |
| D | Analyte reported from a diluted extract |
| U | Undetected above the detection limit |
| J | Estimated value detected between the reporting and detection limits |
| E | Estimated value detected above calibration range |
| RL | Reporting limit is the sample equivalent of the lowest linear calibration concentration |
| EDL | Estimated detection limit is 50% of the RL |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| Field ID: | MW-105-D | Preparation Method: | EPA3580 | | |
|------------------------|---------------------|------------------------|-----------------------|-------------|--------------|
| | | Cleanup Method(s): | | | |
| Client: | Parson | Analysis Method: | GC/MS (EPA 8270 Mod.) | | |
| Project: | Quanta | Matrix: | NAPL | | |
| Lab ID: | PA031121-04 1:10 | Preservation: | None | | |
| File ID: | 15DEC04.D | Decanted: | No | | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0172 | g | |
| Date Received: | 11/21/2003 | %Solid: | 100% | | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL | |
| Date Cleanup: | | Prep DF: | 10 | | |
| Date Analyzed: | 15 Dec 2003 6:10 pm | Analysis DF: | 1 | | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL | |
| Operator: | EC | Batch QC: | ML031128-MB | | |
| Analyte: | | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg |
| PAH COMPOUNDS: | | | | | Comments |
| Benzene | | 75.4 | J | 116 | 58.1 |
| Toluene | | 165 | | 116 | 58.1 |
| Ethylbenzene | | 446 | | 116 | 58.1 |
| m/p-Xylenes | | 547 | | 116 | 58.1 |
| Styrene | | 135 | | 116 | 58.1 |
| c-Xylene | | 343 | | 116 | 58.1 |
| 1,2,4-Trimethylbenzene | | 187 | | 116 | 58.1 |
| Naphthalene | | 55,800 | | 116 | 58.1 |
| 2-Methylnaphthalene | | 20,900 | | 116 | 58.1 |
| 1-Methylnaphthalene | | 11,300 | | 116 | 58.1 |
| Acenaphthylene | | 1,260 | | 116 | 58.1 |
| Acenaphthene | | 13,800 | | 116 | 58.1 |
| Dibenzofuran | | 11,600 | | 116 | 58.1 |
| Fluorene | | 14,500 | | 116 | 58.1 |
| Phenanthrene | | 38,400 | | 116 | 58.1 |
| Anthracene | | 7,570 | | 116 | 58.1 |
| Fluoranthene | | 20,700 | | 116 | 58.1 |
| Pyrene | | 15,200 | | 116 | 58.1 |
| Benz[a]anthracene | | 6,030 | | 116 | 58.1 |
| Chrysene | | 4,770 | | 116 | 58.1 |
| Benzo[b]fluoranthene | | 3,560 | | 116 | 58.1 |
| Benzo[k]fluoranthene | | 3,500 | | 116 | 58.1 |
| Benzo(e)pyrene | | 2,630 | | 116 | 58.1 |
| Benzo[a]pyrene | | 4,540 | | 116 | 58.1 |
| Perylene | | 1,090 | | 116 | 58.1 |
| Indeno[1,2,3-cd]pyrene | | 2,640 | | 116 | 58.1 |
| Dibenz[a,h]anthracene | | 656 | | 116 | 58.1 |
| Benzo[g,h,i]perylene | | 2,580 | | 116 | 58.1 |
| ALKYLATED PAHs: | | | | | |
| C0 - Benzene | | 75.4 | J | 116 | 58.1 |
| C1 - Benzene | | 178 | | 116 | 58.1 |
| C2 - Benzene | | 1,490 | | 116 | 58.1 |
| C3 - Benzene | | 7,910 | | 116 | 58.1 |
| C4 - Benzene | | 2,860 | | 116 | 58.1 |
| C5 - Benzene | | 271 | | 116 | 58.1 |
| C0 - Naphthalene | | 55,800 | | 116 | 58.1 |
| C1 - Naphthalene | | 19,000 | | 116 | 58.1 |
| C2 - Naphthalene | | 7,820 | | 116 | 58.1 |
| C3 - Naphthalene | | 1,620 | | 116 | 58.1 |
| C4 - Naphthalene | | 377 | | 116 | 58.1 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| | | | | |
|------------------|---------------------|----------------------------|-----------------------|----|
| Field ID: | MW-105-D | Preparation Method: | EPA3580 | |
| | | Cleanup Method(s): | | |
| Client: | Parson | Analysis Method: | GC/MS (EPA 8270 Mod.) | |
| Project: | Quanta | Matrix: | NAPL | |
| Lab ID: | PA031121-04 1:10 | Preservation: | None | |
| File ID: | 15DEC04.D | Decanted: | No | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0172 | g |
| Date Received: | 11/21/2003 | %Solid: | 100% | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL |
| Date Cleanup: | | Prep DF: | 10 | |
| Date Analyzed: | 15 Dec 2003 6:10 pm | Analysis DF: | 1 | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL |
| Operator: | EC | Batch QC: | ML031128-MB | |

| Analyte: | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg | Comments |
|---------------------------------|------------------------|---|-------------|--------------|----------|
| C0 - Fluorene | 14,500 | | 116 | 58.1 | |
| C1 - Fluorene | 2,880 | | 116 | 58.1 | |
| C2 - Fluorene | 616 | | 116 | 58.1 | |
| C3 - Fluorene | 255 | | 116 | 58.1 | |
| C0 - Phenanthrene/Anthracene | 46,000 | | 116 | 58.1 | |
| C1 - Phenanthrene/Anthracene | 7,430 | | 116 | 58.1 | |
| C2 - Phenanthrene/Anthracene | 1,950 | | 116 | 58.1 | |
| C3 - Phenanthrene/Anthracene | 453 | | 116 | 58.1 | |
| C4 - Phenanthrene/Anthracene | 107 | J | 116 | 58.1 | |
| C0 - Dibenzothiophene | 2,710 | | 116 | 58.1 | |
| C1 - Dibenzothiophene | 1,220 | | 116 | 58.1 | |
| C2 - Dibenzothiophene | 623 | | 116 | 58.1 | |
| C3 - Dibenzothiophene | 290 | | 116 | 58.1 | |
| C0 - Fluoranthene/Pyrene | 38,200 | | 116 | 58.1 | |
| C1 - Fluoranthene/Pyrene | 6,260 | | 116 | 58.1 | |
| C2 - Fluoranthene/Pyrene | 1,160 | | 116 | 58.1 | |
| C3 - Fluoranthene/Pyrene | 261 | | 116 | 58.1 | |
| C0 - Benz(a)anthracene/Chrysene | 10,500 | | 116 | 58.1 | |
| C1 - Benz(a)anthracene/Chrysene | 1,340 | | 116 | 58.1 | |
| C2 - Benz(a)anthracene/Chrysene | 350 | | 116 | 58.1 | |
| C3 - Benz(a)anthracene/Chrysene | 108 | J | 116 | 58.1 | |
| C4 - Benz(a)anthracene/Chrysene | 59.4 | J | 116 | 58.1 | |

EXTRACTION SURROGATE COMPOUNDS:

| | %R | Min | Max |
|--------------------|------------|-----|------|
| Fluorobenzene | Not Spiked | 50% | 150% |
| 2-Fluorobiphenyl | Not Spiked | 50% | 120% |
| 5a-Androstan | Not Spiked | 50% | 120% |
| Benzo(a)pyrene-d12 | Not Spiked | 50% | 120% |

Qualifiers:

- B Analyte detected in the blank
- D Analyte reported from a diluted extract
- U Undetected above the detection limit
- J Estimated value detected between the reporting and detection limits
- E Estimated value detected above calibration range
- RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL Estimated detection limit is 50% of the RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| Field ID: | MW-102-D | Preparation Method: | EPA3580 | | |
|--|--|--|---|-------------|--------------|
| | | Cleanup Method(s): | | | |
| Client: Project: | Parson Quanta | Analysis Method: Matrix: Preservation: Decanted: | GC/MS (EPA 8270 Mod.) NAPL None No | | |
| Lab ID: File ID: | PA031121-05 1:10 15DEC05.D | Sample Size: %Solid: | 0.0128 | g | |
| Date Sampled: Date Received: Date Prepared: Date Cleanup: Date Analyzed: Instrument: Operator: | 11/20/2003 11/21/2003 11/28/2003 15 Dec 2003 7:20 pm GC2-MS_59 EC | Extract Volume: Prep DF: Analysis DF: Injection Volume: | 2 10 1 0.001 | mL | |
| | | Batch QC: | ML031128-MB | | |
| Analyte: | | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg |
| PAH COMPOUNDS: | | | | | Comments |
| Benzene | | 1,480 | | 156 | 78.1 |
| Toluene | | 3,330 | | 156 | 78.1 |
| Ethylbenzene | | 1,840 | | 156 | 78.1 |
| m/p-Xylenes | | 4,190 | | 156 | 78.1 |
| Styrene | | 1,230 | | 156 | 78.1 |
| o-Xylene | | 1,920 | | 156 | 78.1 |
| 1,2,4-Trimethylbenzene | | 174 | | 156 | 78.1 |
| Naphthalene | | 115,000 | | 156 | 78.1 |
| 2-Methylnaphthalene | | 38,000 | | 156 | 78.1 |
| 1-Methylnaphthalene | | 20,400 | | 156 | 78.1 |
| Acenaphthylene | | 5,360 | | 156 | 78.1 |
| Acenaphthene | | 11,200 | | 156 | 78.1 |
| Dibenzofuran | | 11,100 | | 156 | 78.1 |
| Fluorene | | 12,800 | | 156 | 78.1 |
| Phenanthrene | | 35,900 | | 156 | 78.1 |
| Anthracene | | 8,810 | | 156 | 78.1 |
| Fluoranthene | | 16,400 | | 156 | 78.1 |
| Pyrene | | 13,900 | | 156 | 78.1 |
| Benz[a]anthracene | | 4,410 | | 156 | 78.1 |
| Chrysene | | 3,870 | | 156 | 78.1 |
| Benz[b]fluoranthene | | 2,170 | | 156 | 78.1 |
| Benz[k]fluoranthene | | 2,290 | | 156 | 78.1 |
| Benz(e)pyrene | | 1,910 | | 156 | 78.1 |
| Benz[a]pyrene | | 3,110 | | 156 | 78.1 |
| Perylene | | 721 | | 156 | 78.1 |
| Indeno[1,2,3-cd]pyrene | | 1,640 | | 156 | 78.1 |
| Dibenz[a,h]anthracene | | 375 | | 156 | 78.1 |
| Benzo[g,h,i]perylene | | 1,800 | | 156 | 78.1 |
| ALKYLATED PAHs: | | | | | |
| C0 - Benzene | | 1,480 | | 156 | 78.1 |
| C1 - Benzene | | 3,590 | | 156 | 78.1 |
| C2 - Benzene | | 8,590 | | 156 | 78.1 |
| C3 - Benzene | | 9,990 | | 156 | 78.1 |
| C4 - Benzene | | 4,930 | | 156 | 78.1 |
| C5 - Benzene | | 1,200 | | 156 | 78.1 |
| C0 - Naphthalene | | 115,000 | | 156 | 78.1 |
| C1 - Naphthalene | | 34,100 | | 156 | 78.1 |
| C2 - Naphthalene | | 12,800 | | 156 | 78.1 |
| C3 - Naphthalene | | 2,660 | | 156 | 78.1 |
| C4 - Naphthalene | | 689 | | 156 | 78.1 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| | | | | |
|---------------------|-------------------------------|----------------------------|-----------------------|----|
| Field ID: | MW-102-D | Preparation Method: | EPA3580 | |
| | | Cleanup Method(s): | | |
| Client: Project: | Parson Quanta | Analysis Method: | GC/MS (EPA 8270 Mod.) | |
| Lab ID: File ID: | PA031121-05 1:10 15DEC05.D | Matrix: | NAPL | |
| | | Preservation: | None | |
| | | Decanted: | No | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0128 | g |
| Date Received: | 11/21/2003 | %Solid: | 100% | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL |
| Date Cleanup: | | Prep DF: | 10 | |
| Date Analyzed: | 15 Dec 2003 7:20 pm | Analysis DF: | 1 | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL |
| Operator: | EC | Batch QC: | ML031128-MB | |

| Analyte: | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg | Comments |
|---------------------------------|------------------------|---|-------------|--------------|----------|
| C0 - Fluorene | 12,800 | | 156 | 78.1 | |
| C1 - Fluorene | 3,570 | | 156 | 78.1 | |
| C2 - Fluorene | 936 | | 156 | 78.1 | |
| C3 - Fluorene | 366 | | 156 | 78.1 | |
| C0 - Phenanthrene/Anthracene | 44,700 | | 156 | 78.1 | |
| C1 - Phenanthrene/Anthracene | 8,650 | | 156 | 78.1 | |
| C2 - Phenanthrene/Anthracene | 2,620 | | 156 | 78.1 | |
| C3 - Phenanthrene/Anthracene | 600 | | 156 | 78.1 | |
| C4 - Phenanthrene/Anthracene | 133 | J | 156 | 78.1 | |
| C0 - Dibenzothiophene | 2,300 | | 156 | 78.1 | |
| C1 - Dibenzothiophene | 1,080 | | 156 | 78.1 | |
| C2 - Dibenzothiophene | 526 | | 156 | 78.1 | |
| C3 - Dibenzothiophene | 262 | | 156 | 78.1 | |
| C0 - Fluoranthene/Pyrene | 31,900 | | 156 | 78.1 | |
| C1 - Fluoranthene/Pyrene | 5,440 | | 156 | 78.1 | |
| C2 - Fluoranthene/Pyrene | 1,220 | | 156 | 78.1 | |
| C3 - Fluoranthene/Pyrene | 271 | | 156 | 78.1 | |
| C0 - Benz(a)anthracene/Chrysene | 8,120 | | 156 | 78.1 | |
| C1 - Benz(a)anthracene/Chrysene | 1,210 | | 156 | 78.1 | |
| C2 - Benz(a)anthracene/Chrysene | 292 | | 156 | 78.1 | |
| C3 - Benz(a)anthracene/Chrysene | 105 | J | 156 | 78.1 | |
| C4 - Benz(a)anthracene/Chrysene | | U | 156 | 78.1 | |

EXTRACTION SURROGATE COMPOUNDS:

| | %R | Min | Max |
|--------------------|------------|-----|------|
| Fluorobenzene | Not Spiked | 50% | 150% |
| 2-Fluorobiphenyl | Not Spiked | 50% | 120% |
| 5a-Androstane | Not Spiked | 50% | 120% |
| Benzo(a)pyrene-d12 | Not Spiked | 50% | 120% |

Qualifiers:

- B Analyte detected in the blank
- D Analyte reported from a diluted extract
- U Undetected above the detection limit
- J Estimated value detected between the reporting and detection limits
- E Estimated value detected above calibration range
- RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL Estimated detection limit is 50% of the RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| Field ID: | MW-103-D | Preparation Method: | EPA3580 | | |
|------------------------|---------------------|------------------------|-----------------------|-------------|--------------|
| | | Cleanup Method(s): | | | |
| Client: | Parson | Analysis Method: | GC/MS (EPA 8270 Mod.) | | |
| Project: | Quanta | Matrix: | NAPL | | |
| Lab ID: | PA031121-06 1:10 | Preservation: | None | | |
| File ID: | 15DEC06.D | Decanted: | No | | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0139 | g | |
| Date Received: | 11/21/2003 | %Solid: | 100% | | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL | |
| Date Cleanup: | | Prep DF: | 10 | | |
| Date Analyzed: | 15 Dec 2003 8:30 pm | Analysis DF: | 1 | | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL | |
| Operator: | EC | Batch QC: | ML031128-MB | | |
| Analyte: | | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg |
| PAH COMPOUNDS: | | | | | Comments |
| Benzene | | 234 | | 144 | 71.9 |
| Toluene | | 1,960 | | 144 | 71.9 |
| Ethylbenzene | | 1,870 | | 144 | 71.9 |
| m/p-Xylenes | | 4,690 | | 144 | 71.9 |
| Styrene | | 954 | | 144 | 71.9 |
| c-Xylene | | 2,110 | | 144 | 71.9 |
| 1,2,4-Trimethylbenzene | | 516 | | 144 | 71.9 |
| Naphthalene | | 83,200 | | 144 | 71.9 |
| 2-Methylnaphthalene | | 30,300 | | 144 | 71.9 |
| 1-Methylnaphthalene | | 16,800 | | 144 | 71.9 |
| Acenaphthylene | | 1,460 | | 144 | 71.9 |
| Acenaphthene | | 12,700 | | 144 | 71.9 |
| Dibenzofuran | | 9,570 | | 144 | 71.9 |
| Fluorene | | 11,900 | | 144 | 71.9 |
| Phenanthrene | | 32,100 | | 144 | 71.9 |
| Anthracene | | 7,070 | | 144 | 71.9 |
| Fluoranthene | | 14,300 | | 144 | 71.9 |
| Pyrene | | 10,700 | | 144 | 71.9 |
| Benz[a]anthracene | | 3,580 | | 144 | 71.9 |
| Chrysene | | 3,400 | | 144 | 71.9 |
| Benzo[b]fluoranthene | | 1,730 | | 144 | 71.9 |
| Benzo[k]fluoranthene | | 1,710 | | 144 | 71.9 |
| Benzo(e)pyrene | | 1,270 | | 144 | 71.9 |
| Benzo[a]pyrene | | 1,970 | | 144 | 71.9 |
| Perylene | | 427 | | 144 | 71.9 |
| Indeno[1,2,3-cd]pyrene | | 922 | | 144 | 71.9 |
| Dibenz[a,h]anthracene | | 230 | | 144 | 71.9 |
| Benzo[g,h,i]perylene | | 893 | | 144 | 71.9 |
| ALKYLATED PAHs: | | | | | |
| C0 - Benzene | | 234 | | 144 | 71.9 |
| C1 - Benzene | | 2,110 | | 144 | 71.9 |
| C2 - Benzene | | 9,210 | | 144 | 71.9 |
| C3 - Benzene | | 7,800 | | 144 | 71.9 |
| C4 - Benzene | | 3,490 | | 144 | 71.9 |
| C5 - Benzene | | 667 | | 144 | 71.9 |
| C0 - Naphthalene | | 83,200 | | 144 | 71.9 |
| C1 - Naphthalene | | 27,700 | | 144 | 71.9 |
| C2 - Naphthalene | | 11,200 | | 144 | 71.9 |
| C3 - Naphthalene | | 2,270 | | 144 | 71.9 |
| C4 - Naphthalene | | 546 | | 144 | 71.9 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| | | | | |
|------------------|---------------------|----------------------------|-----------------------|----|
| Field ID: | MW-103-D | Preparation Method: | EPA3580 | |
| | | Cleanup Method(s): | | |
| Client: | Parson | Analysis Method: | GC/MS (EPA 8270 Mod.) | |
| Project: | Quanta | Matrix: | NAPL | |
| Lab ID: | PA031121-06 1:10 | Preservation: | None | |
| File ID: | 15DEC06.D | Decanted: | No | |
| Date Sampled: | 11/20/2003 | Sample Size: | 0.0139 | g |
| Date Received: | 11/21/2003 | %Solid: | 100% | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL |
| Date Cleanup: | | Prep DF: | 10 | |
| Date Analyzed: | 15 Dec 2003 8:30 pm | Analysis DF: | 1 | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL |
| Operator: | EC | Batch QC: | ML031128-MB | |

| Analyte: | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg | Comments |
|---------------------------------|------------------------|---|-------------|--------------|----------|
| C0 - Fluorene | 11,900 | | 144 | 71.9 | |
| C1 - Fluorene | 2,500 | | 144 | 71.9 | |
| C2 - Fluorene | 639 | | 144 | 71.9 | |
| C3 - Fluorene | 250 | | 144 | 71.9 | |
| C0 - Phenanthrene/Anthracene | 39,200 | | 144 | 71.9 | |
| C1 - Phenanthrene/Anthracene | 6,800 | | 144 | 71.9 | |
| C2 - Phenanthrene/Anthracene | 1,710 | | 144 | 71.9 | |
| C3 - Phenanthrene/Anthracene | 358 | | 144 | 71.9 | |
| C4 - Phenanthrene/Anthracene | 90.2 | J | 144 | 71.9 | |
| C0 - Dibenzothiophene | 2,110 | | 144 | 71.9 | |
| C1 - Dibenzothiophene | 997 | | 144 | 71.9 | |
| C2 - Dibenzothiophene | 430 | | 144 | 71.9 | |
| C3 - Dibenzothiophene | 178 | | 144 | 71.9 | |
| C0 - Fluoranthene/Pyrene | 25,700 | | 144 | 71.9 | |
| C1 - Fluoranthene/Pyrene | 4,130 | | 144 | 71.9 | |
| C2 - Fluoranthene/Pyrene | 791 | | 144 | 71.9 | |
| C3 - Fluoranthene/Pyrene | 173 | | 144 | 71.9 | |
| C0 - Benz(a)anthracene/Chrysene | 6,800 | | 144 | 71.9 | |
| C1 - Benz(a)anthracene/Chrysene | 790 | | 144 | 71.9 | |
| C2 - Benz(a)anthracene/Chrysene | 182 | | 144 | 71.9 | |
| C3 - Benz(a)anthracene/Chrysene | | U | 144 | 71.9 | |
| C4 - Benz(a)anthracene/Chrysene | | U | 144 | 71.9 | |

EXTRACTION SURROGATE COMPOUNDS:

| | %R | Min | Max |
|--------------------|------------|-----|------|
| Fluorobenzene | Not Spiked | 50% | 150% |
| 2-Fluorobiphenyl | Not Spiked | 50% | 120% |
| 5a-Androstan | Not Spiked | 50% | 120% |
| Benzo(a)pyrene-d12 | Not Spiked | 50% | 120% |

Qualifiers:

- B Analyte detected in the blank
- D Analyte reported from a diluted extract
- U Undetected above the detection limit
- J Estimated value detected between the reporting and detection limits
- E Estimated value detected above calibration range
- RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL Estimated detection limit is 50% of the RL

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| Field ID: | METHOD BLANK | Preparation Method: | EPA3580 | | |
|------------------------|---------------------|------------------------|-----------------------|-------------|--------------|
| | | Cleanup Method(s): | | | |
| Client: | Various | Analysis Method: | GC/MS (EPA 8270 Mod.) | | |
| Project: | Various | Matrix: | NAPL | | |
| Lab ID: | ML031128-MB | Preservation: | None | | |
| File ID: | 08DEC18.D | Decanted: | No | | |
| Date Sampled: | | Sample Size: | 0.01 | g | |
| Date Received: | | %Solid: | 100% | | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL | |
| Date Cleanup: | | Prep DF: | 1 | | |
| Date Analyzed: | 9 Dec 2003 6:54 am | Analysis DF: | 1 | | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL | |
| Operator: | EC | Batch QC: | ML031128-MB | | |
| Analyte: | | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg |
| PAH COMPOUNDS: | | | | | |
| Benzene | | U | | 20.0 | 10.0 |
| Toluene | | U | | 20.0 | 10.0 |
| Ethylbenzene | | U | | 20.0 | 10.0 |
| m/p-Xylenes | | U | | 20.0 | 10.0 |
| Styrene | | U | | 20.0 | 10.0 |
| o-Xylene | | U | | 20.0 | 10.0 |
| 1,2,4-Trimethylbenzene | | U | | 20.0 | 10.0 |
| Naphthalene | | U | | 20.0 | 10.0 |
| 2-Methylnaphthalene | | U | | 20.0 | 10.0 |
| 1-Methylnaphthalene | | U | | 20.0 | 10.0 |
| Acenaphthylene | | U | | 20.0 | 10.0 |
| Acenaphthene | | U | | 20.0 | 10.0 |
| Dibenzofuran | | U | | 20.0 | 10.0 |
| Fluorene | | U | | 20.0 | 10.0 |
| Phenanthrene | | U | | 20.0 | 10.0 |
| Anthracene | | U | | 20.0 | 10.0 |
| Fluoranthene | | U | | 20.0 | 10.0 |
| Pyrene | | U | | 20.0 | 10.0 |
| Benz[a]anthracene | | U | | 20.0 | 10.0 |
| Chrysene | | U | | 20.0 | 10.0 |
| Benzo[b]fluoranthene | | U | | 20.0 | 10.0 |
| Benzo[k]fluoranthene | | U | | 20.0 | 10.0 |
| Benzo(e)pyrene | | U | | 20.0 | 10.0 |
| Benzo[a]pyrene | | U | | 20.0 | 10.0 |
| Perlylene | | U | | 20.0 | 10.0 |
| Indeno[1,2,3-cd]pyrene | | U | | 20.0 | 10.0 |
| Dibenz[a,h]anthracene | | U | | 20.0 | 10.0 |
| Benzo[g,h,i]perylene | | U | | 20.0 | 10.0 |
| ALKYLATED PAHs: | | | | | |
| C0 - Benzene | | U | | 20.0 | 10.0 |
| C1 - Benzene | | U | | 20.0 | 10.0 |
| C2 - Benzene | | U | | 20.0 | 10.0 |
| C3 - Benzene | | U | | 20.0 | 10.0 |
| C4 - Benzene | | U | | 20.0 | 10.0 |
| C5 - Benzene | | U | | 20.0 | 10.0 |
| C0 - Naphthalene | | U | | 20.0 | 10.0 |
| C1 - Naphthalene | | U | | 20.0 | 10.0 |
| C2 - Naphthalene | | U | | 20.0 | 10.0 |
| C3 - Naphthalene | | U | | 20.0 | 10.0 |
| C4 - Naphthalene | | U | | 20.0 | 10.0 |

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

| | | | | |
|------------------|---------------------|----------------------------|-----------------------|----|
| Field ID: | METHOD BLANK | Preparation Method: | EPA3580 | |
| | | Cleanup Method(s): | | |
| Client: | Various | Analysis Method: | GC/MS (EPA 8270 Mod.) | |
| Project: | Various | Matrix: | NAPL | |
| Lab ID: | ML031128-MB | Preservation: | None | |
| File ID: | 08DEC18.D | Decanted: | No | |
| Date Sampled: | | Sample Size: | 0.01 | g |
| Date Received: | | %Solid: | 100% | |
| Date Prepared: | 11/28/2003 | Extract Volume: | 2 | mL |
| Date Cleanup: | | Prep DF: | 1 | |
| Date Analyzed: | 9 Dec 2003 6:54 am | Analysis DF: | 1 | |
| Instrument: | GC2-MS_59 | Injection Volume: | 0.001 | mL |
| Operator: | EC | Batch QC: | ML031128-MB | |

| Analyte: | Concentration mg/kg | Q | RL mg/kg | EDL mg/kg | Comments |
|---------------------------------|------------------------|---|-------------|--------------|----------|
| C0 - Fluorene | | U | 20.0 | 10.0 | |
| C1 - Fluorene | | U | 20.0 | 10.0 | |
| C2 - Fluorene | | U | 20.0 | 10.0 | |
| C3 - Fluorene | | U | 20.0 | 10.0 | |
| C0 - Phenanthrene/Anthracene | | U | 20.0 | 10.0 | |
| C1 - Phenanthrene/Anthracene | | U | 20.0 | 10.0 | |
| C2 - Phenanthrene/Anthracene | | U | 20.0 | 10.0 | |
| C3 - Phenanthrene/Anthracene | | U | 20.0 | 10.0 | |
| C4 - Phenanthrene/Anthracene | | U | 20.0 | 10.0 | |
| C0 - Dibenzothiophene | | U | 20.0 | 10.0 | |
| C1 - Dibenzothiophene | | U | 20.0 | 10.0 | |
| C2 - Dibenzothiophene | | U | 20.0 | 10.0 | |
| C3 - Dibenzothiophene | | U | 20.0 | 10.0 | |
| C0 - Fluoranthene/Pyrene | | U | 20.0 | 10.0 | |
| C1 - Fluoranthene/Pyrene | | U | 20.0 | 10.0 | |
| C2 - Fluoranthene/Pyrene | | U | 20.0 | 10.0 | |
| C3 - Fluoranthene/Pyrene | | U | 20.0 | 10.0 | |
| C0 - Benz(a)anthracene/Chrysene | | U | 20.0 | 10.0 | |
| C1 - Benz(a)anthracene/Chrysene | | U | 20.0 | 10.0 | |
| C2 - Benz(a)anthracene/Chrysene | | U | 20.0 | 10.0 | |
| C3 - Benz(a)anthracene/Chrysene | | U | 20.0 | 10.0 | |
| C4 - Benz(a)anthracene/Chrysene | | U | 20.0 | 10.0 | |

| | | | |
|--|------------|------------|------------|
| EXTRACTION SURROGATE COMPOUNDS: | %R | Min | Max |
| Fluorobenzene | Not Spiked | 50% | 120% |
| 2-Fluorobiphenyl | Not Spiked | 50% | 120% |
| 5a-Androstan | Not Spiked | 50% | 120% |
| Benzo(a)pyrene-d12 | Not Spiked | 50% | 120% |

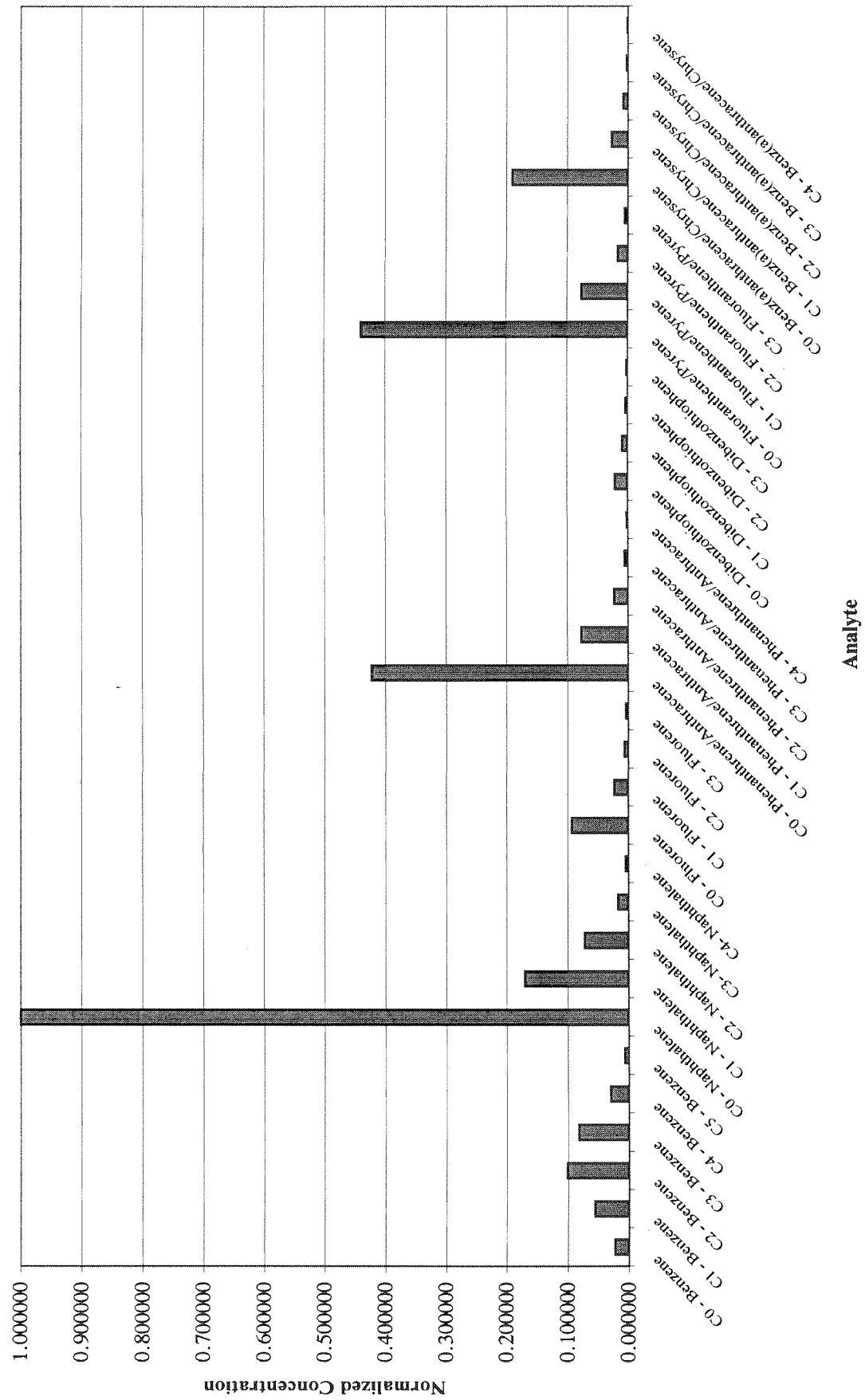
Qualifiers:

| | |
|-----|---|
| B | Analyte detected in the blank |
| D | Analyte reported from a diluted extract |
| U | Undetected above the detection limit |
| J | Estimated value detected between the reporting and detection limits |
| E | Estimated value detected above calibration range |
| RL | Reporting limit is the sample equivalent of the lowest linear calibration concentration |
| EDL | Estimated detection limit is 50% of the RL |

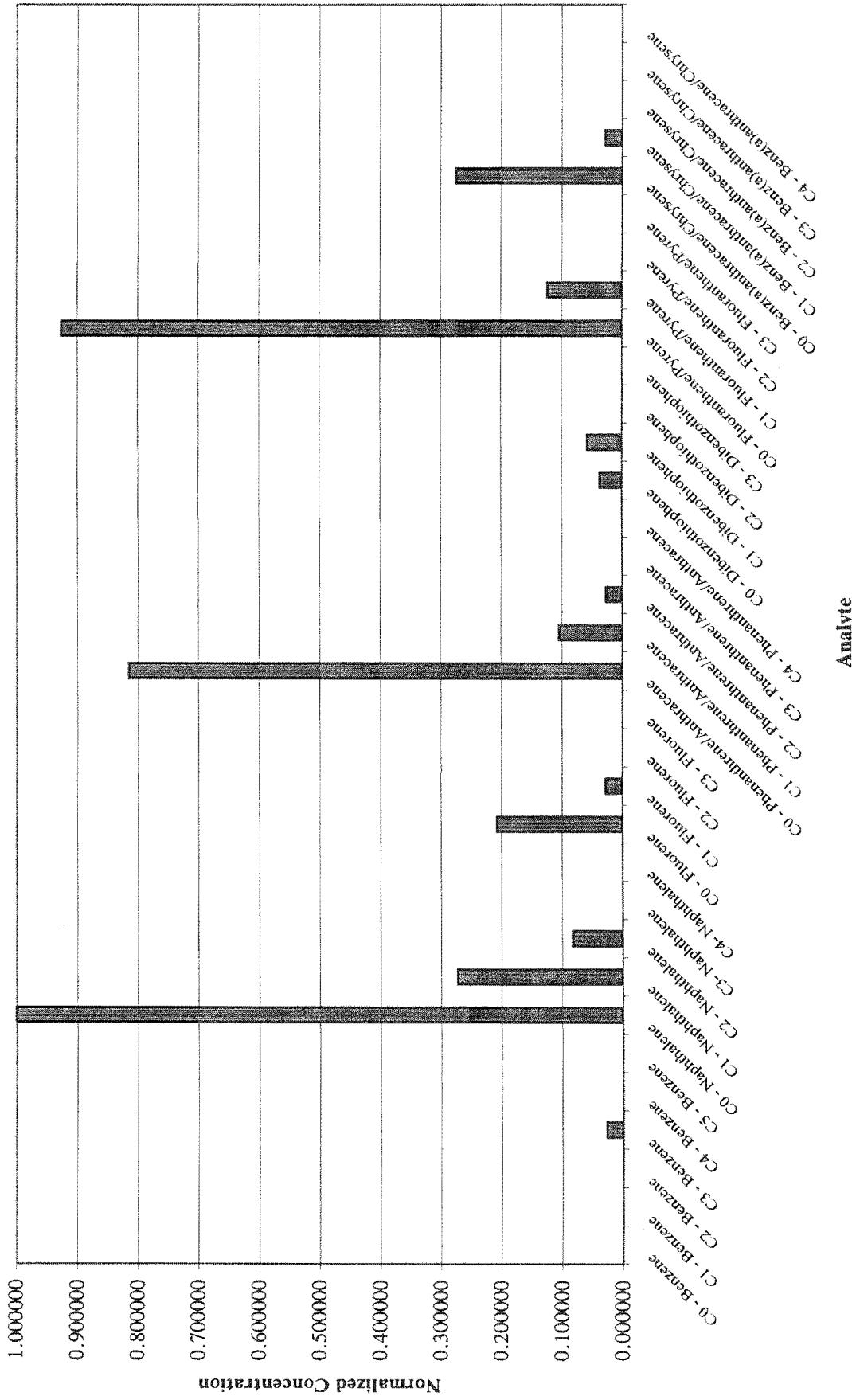
Appendix D

Extended PAH Profiles – Bar Graphs

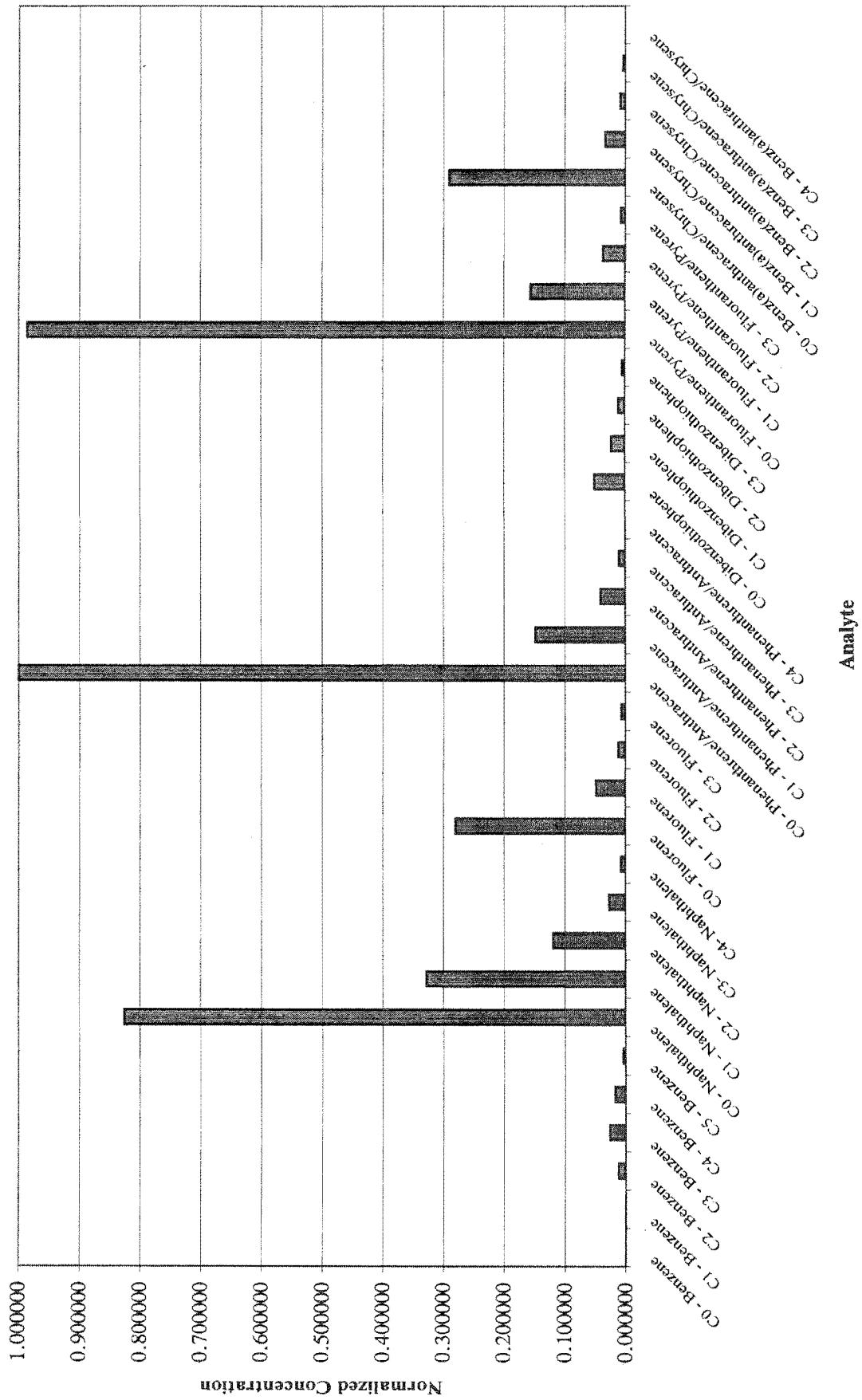
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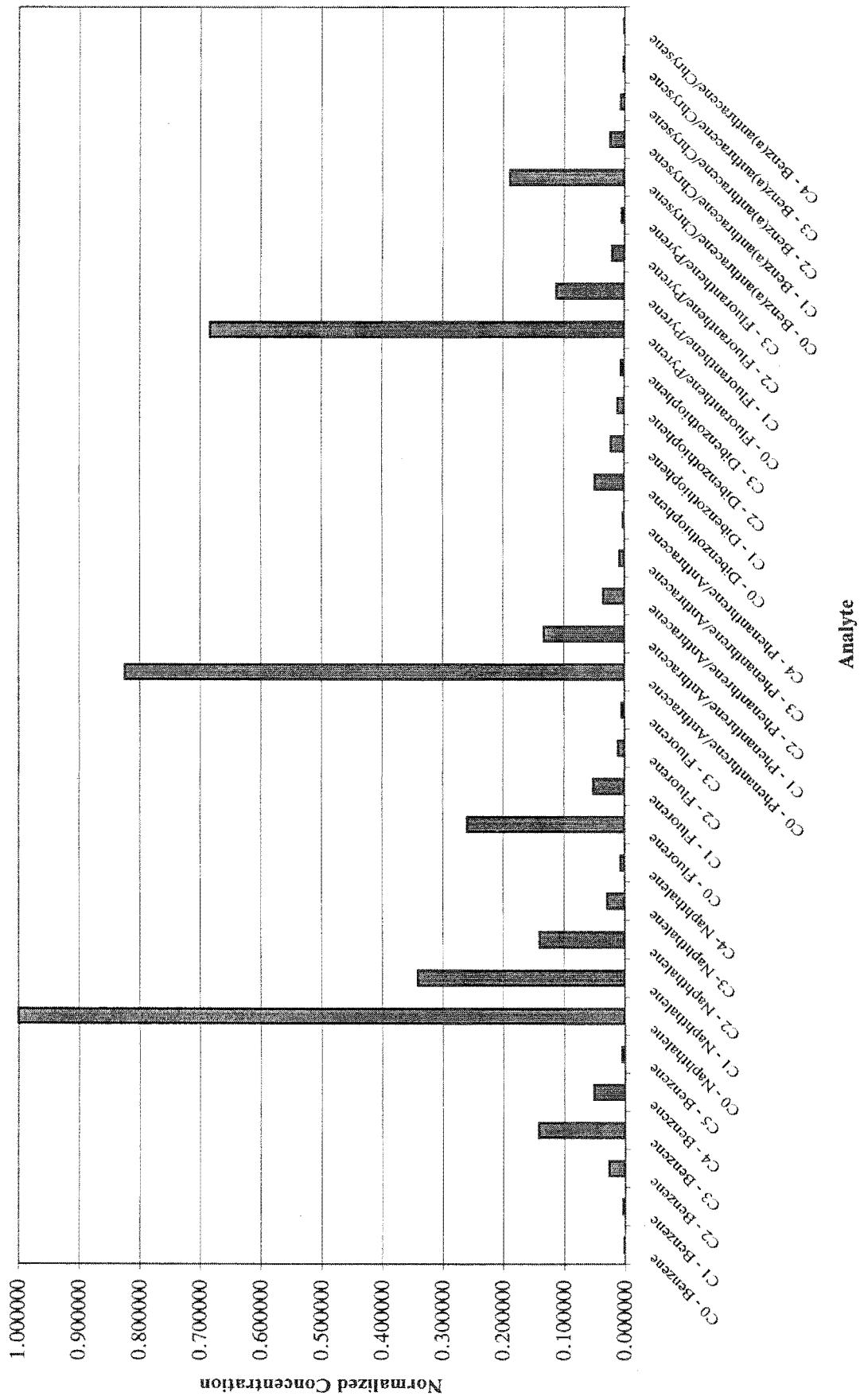
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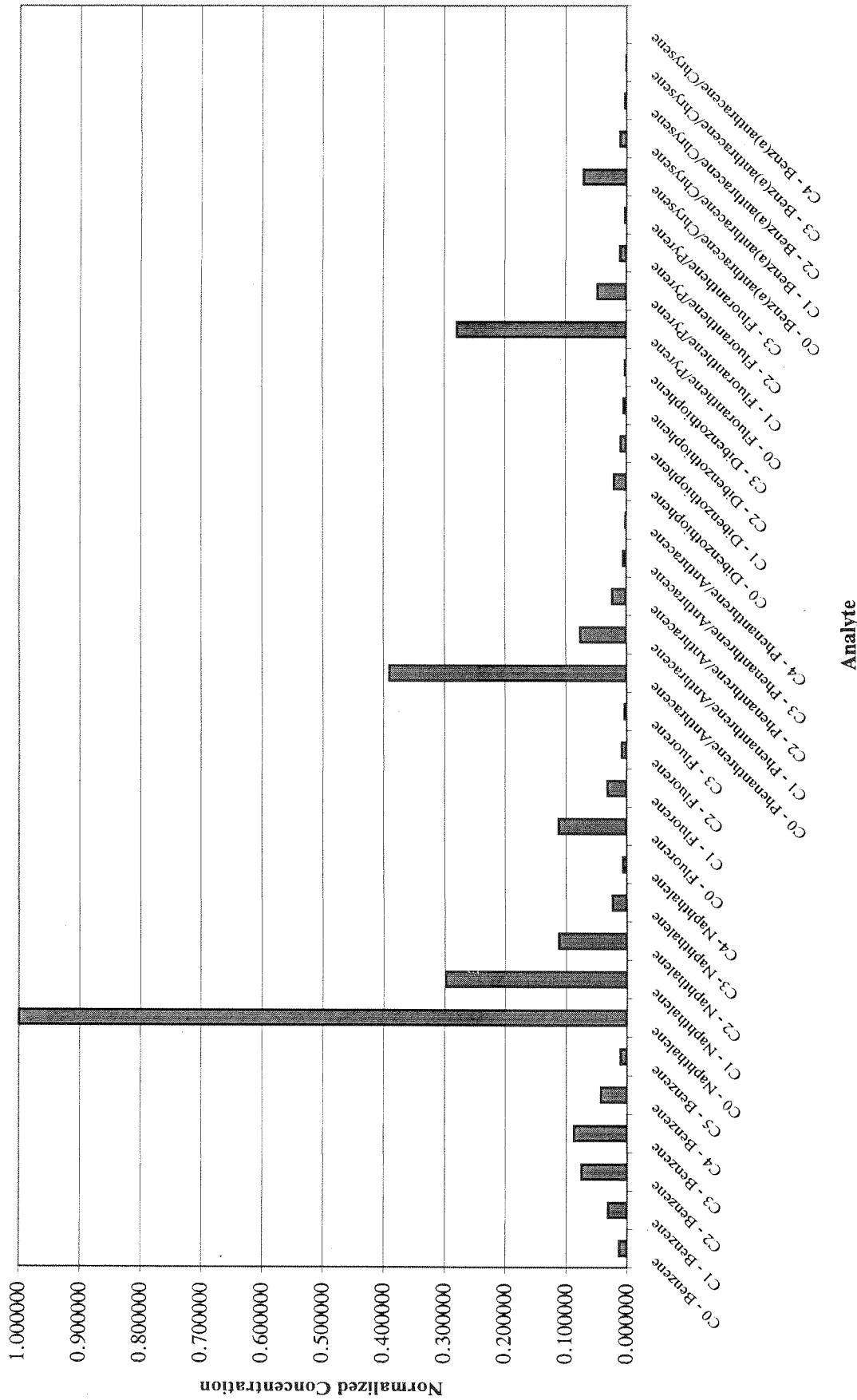
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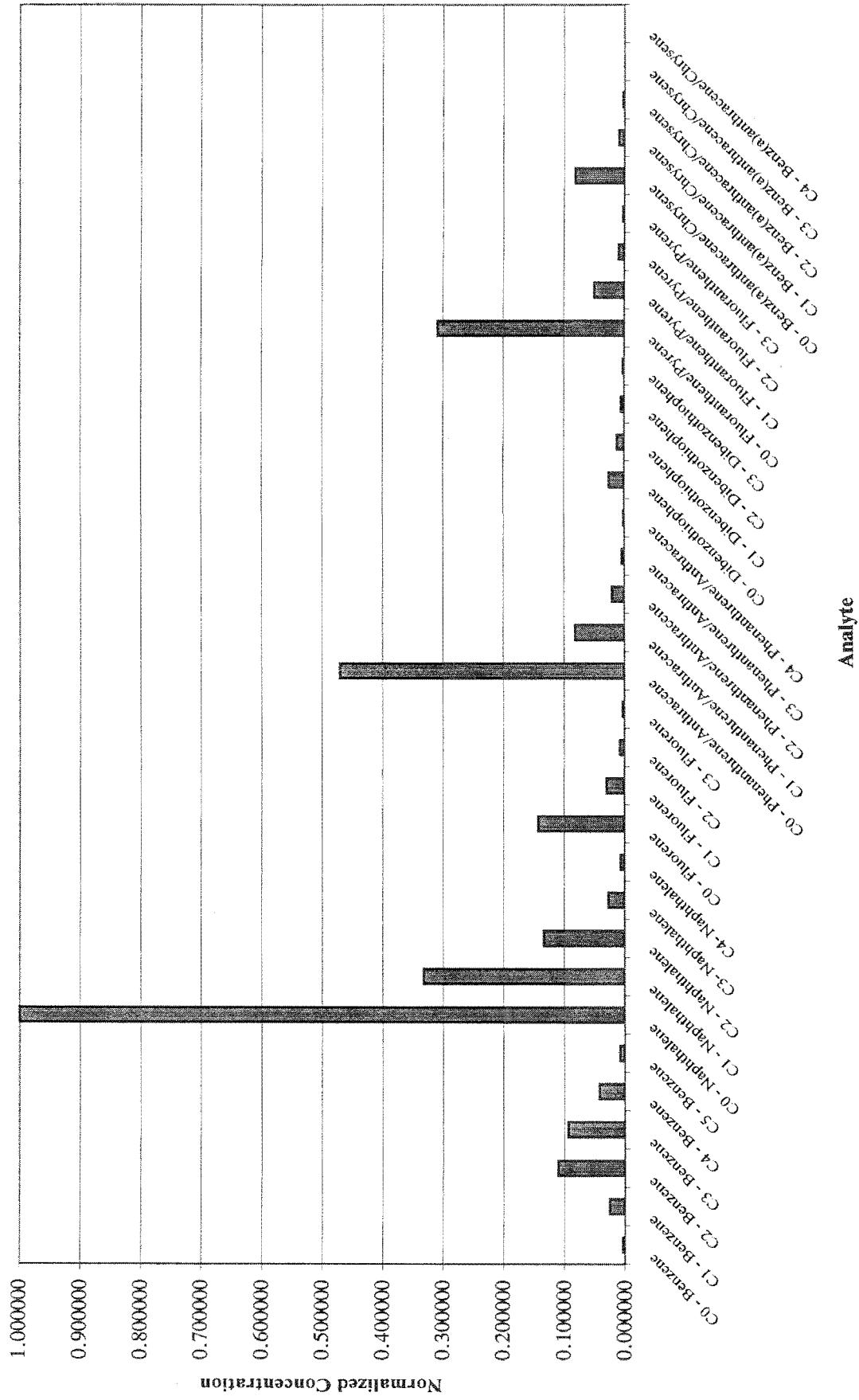
MW-105-D



MW-102-D



MW-103-D



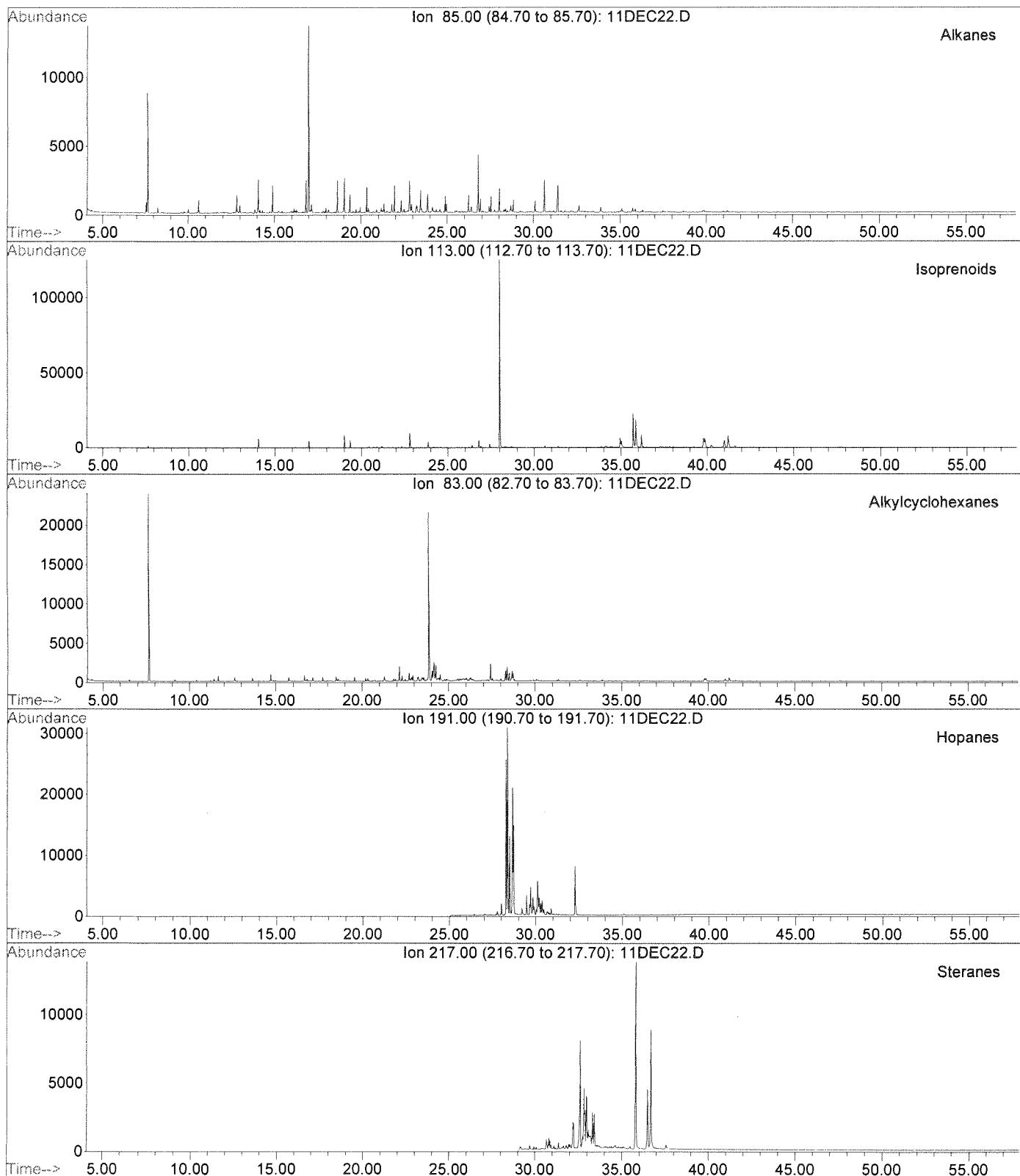
Appendix E

Extracted Ion Current Profiles (EICs)

Primary Ions for Target Compounds and Compound Groups

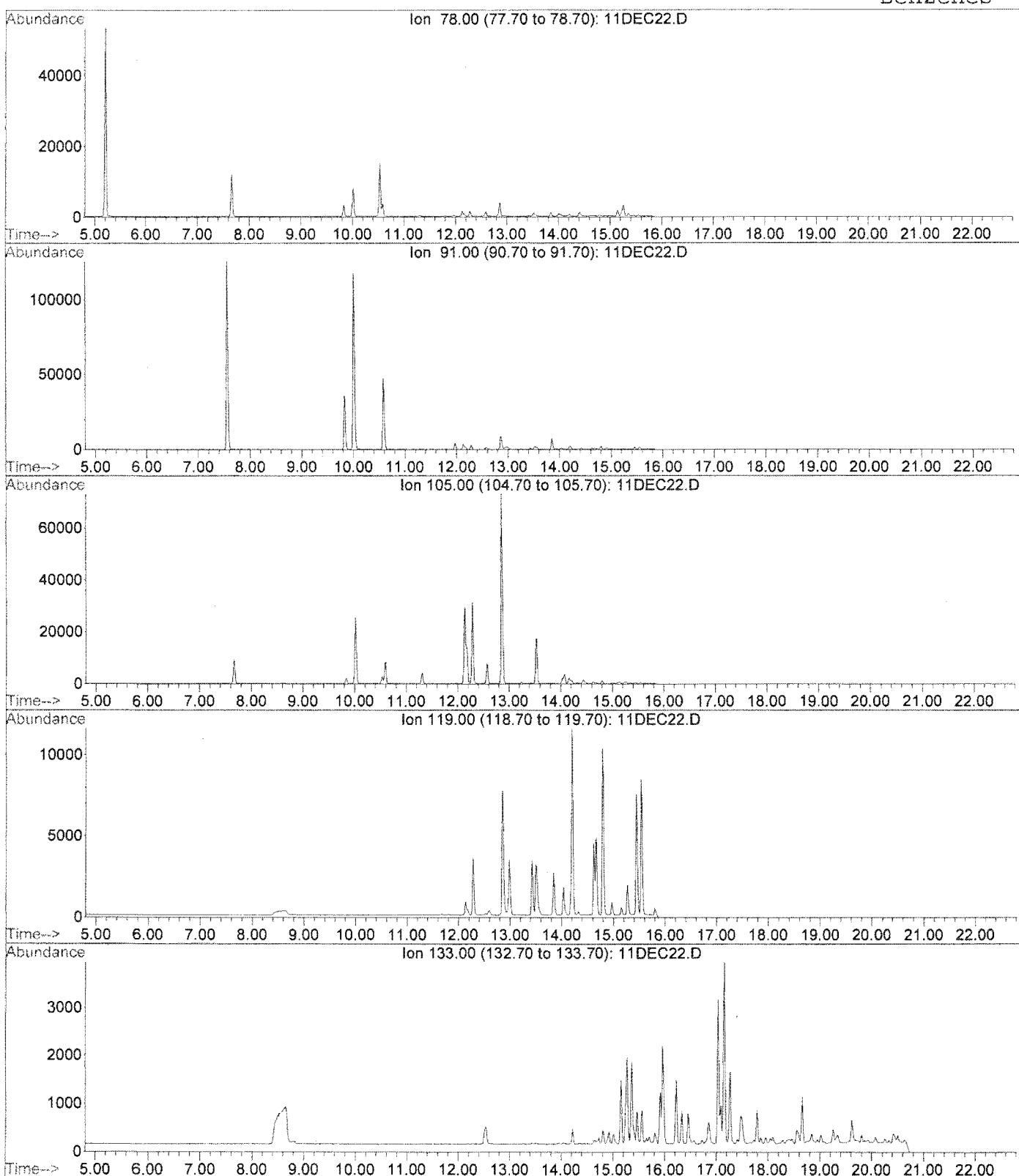
| Target Compound or Group | Abbreviation | Ion |
|--|--------------|-----|
| Alkylated cyclohexanes | | 83 |
| Normal alkanes, pristane, phytane | | 85 |
| Isoprenoid hydrocarbons, pristane, phytane | | 113 |
| Olefins | | 115 |
| Hopanes | | 191 |
| Steranes | | 217 |
| Benzene | B | 78 |
| Monoalkylbenzenes | C1B | 91 |
| Dialkylbenzenes | C2B | 91 |
| Trialkylbenzenes | C3B | 105 |
| Tetraalkylbenzenes | C4B | 119 |
| Pentaalkylbenzenes | C5B | 133 |
| Naphthalene | N | 128 |
| Monoalkylnaphthalenes | C1N | 142 |
| Dialkylnaphthalenes | C2N | 156 |
| Trialkylnaphthalenes | C3N | 170 |
| Tetraalkylnaphthalenes | C4N | 184 |
| Fluorene | F | 166 |
| Monoalkylfluorenes | C1F | 180 |
| Dialkylfluorenes | C2F | 194 |
| Trialkylfluorenes | C3F | 208 |
| Phenanthrene, anthracene | PA | 178 |
| Monoalkylphenanthrenes and anthracenes | C1PA | 192 |
| Dialkylphenanthrenes and anthracenes | C2PA | 206 |
| Trialkylphenanthrenes and anthracenes | C3PA | 220 |
| Tetraalkylphenanthrenes and anthracenes | C4PA | 234 |
| Dibenzothiophene | D | 184 |
| Monoalkyldibenzothiophenes | C1D | 198 |
| Dialkyldibenzothiophenes | C2D | 212 |
| Trialkyldibenzothiophenes | C3D | 226 |
| Fluoranthene, pyrene | FP | 202 |
| Monoalkylfluoranthenes and pyrenes | C1FP | 216 |
| Dialkylfluoranthenes and pyrenes | C2FP | 230 |
| Trialkylfluoranthenes and pyrenes | C3FP | 244 |
| Benz(a)anthracene, chrysene | BC | 228 |
| Monoalkylbenz(a)anthracenes and chrysenes | C1BC | 242 |
| Dialkylbenz(a)anthracenes and chrysenes | C2BC | 256 |
| Trialkylbenz(a)anthracenes and chrysenes | C3BC | 270 |
| Tetraalkylbenz(a)anthracenes and chrysenes | C4BC | 284 |

Field ID: MW-104-D
Lab ID: PA031121-01 1:10
File: I:\2\DATA\031211\11DEC22.D
Acquired: 12 Dec 2003 4:21 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC



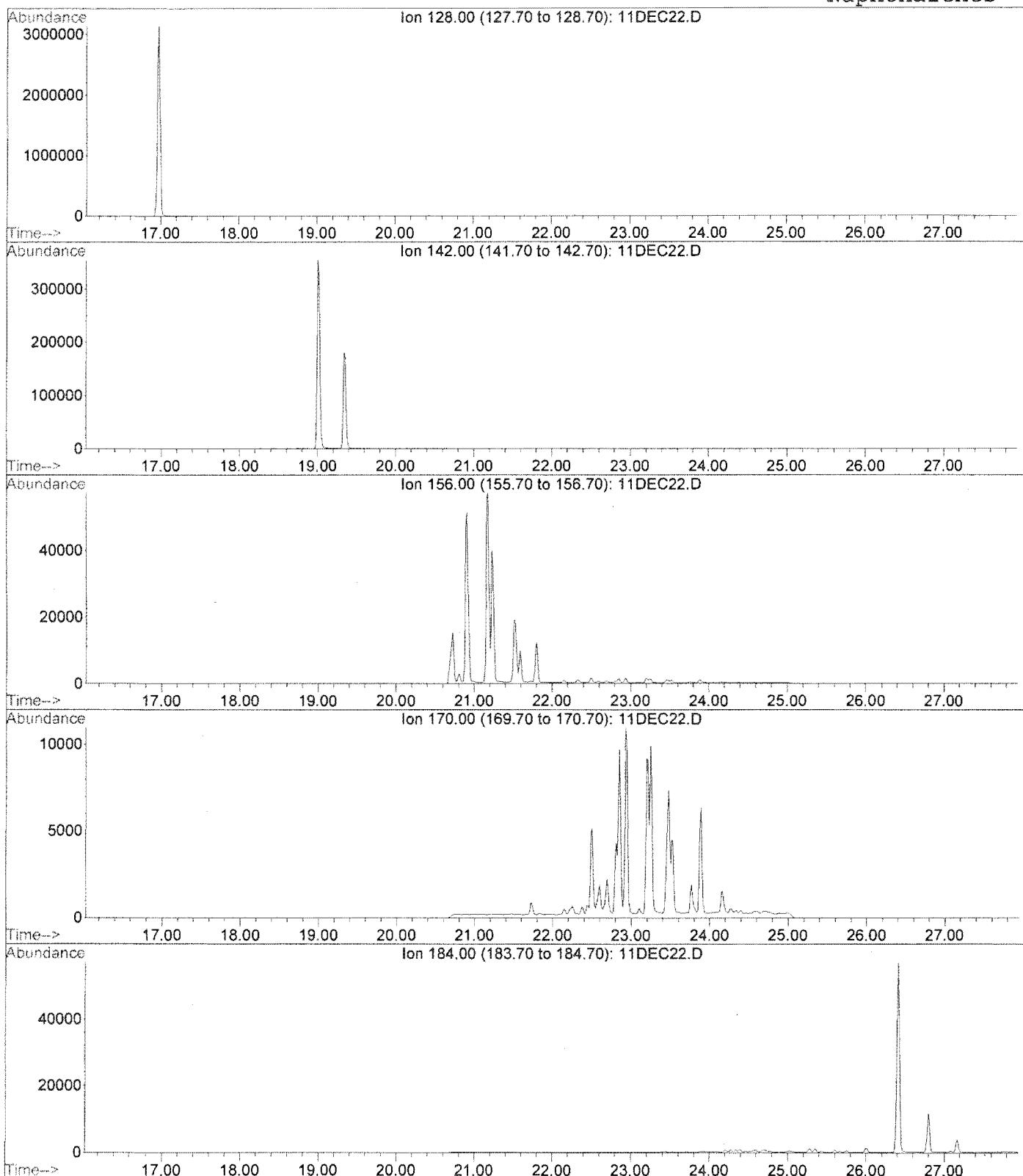
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File: I:\2\DATA\031211\11DEC22.D
Acquired: 12 Dec 2003 4:21 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Benzenes



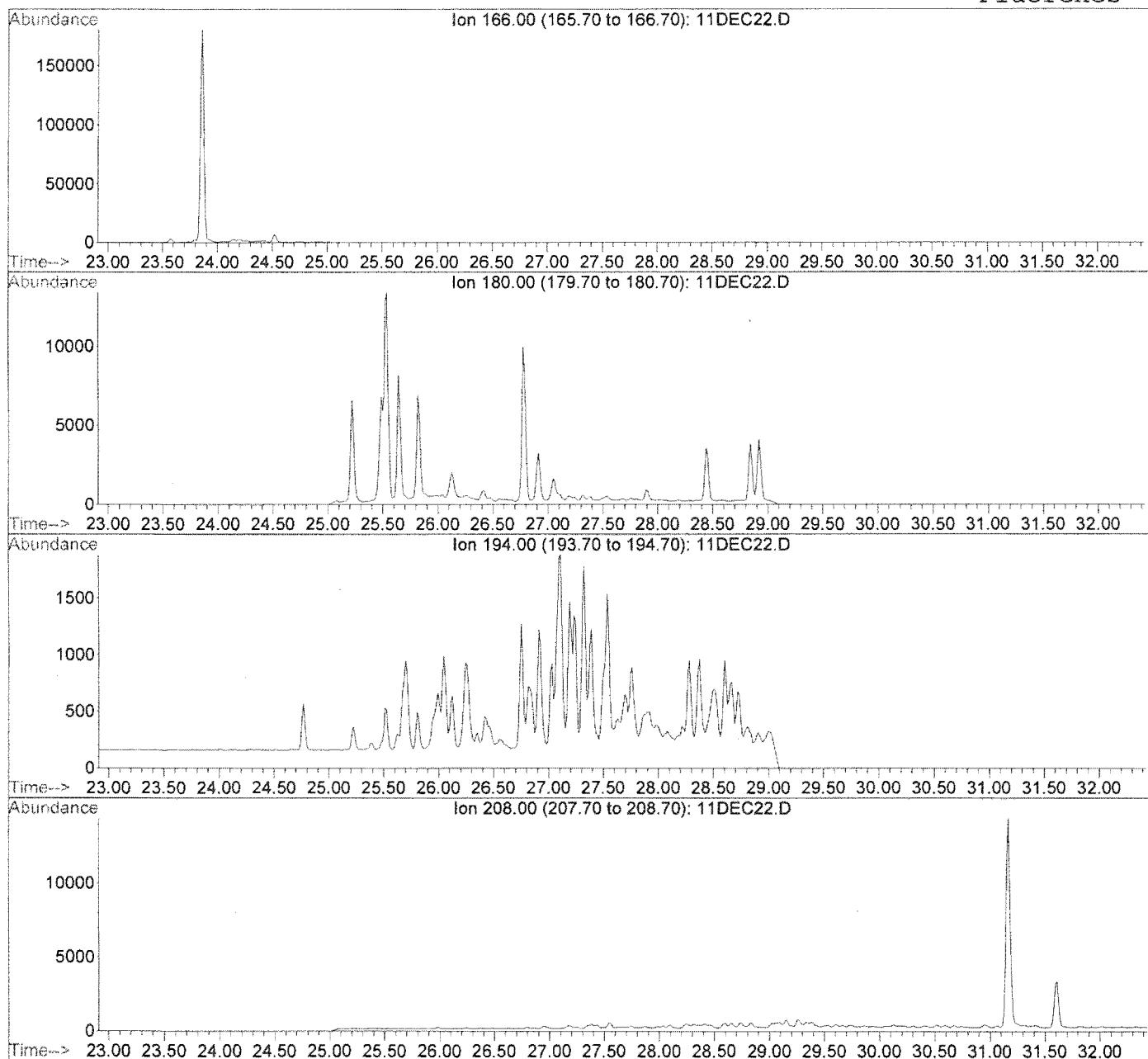
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Lab ID: PA031121-01 1:10
File: I:\2\DATA\031211\11DEC22.D
Acquired: 12 Dec 2003 4:21 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Naphthalenes



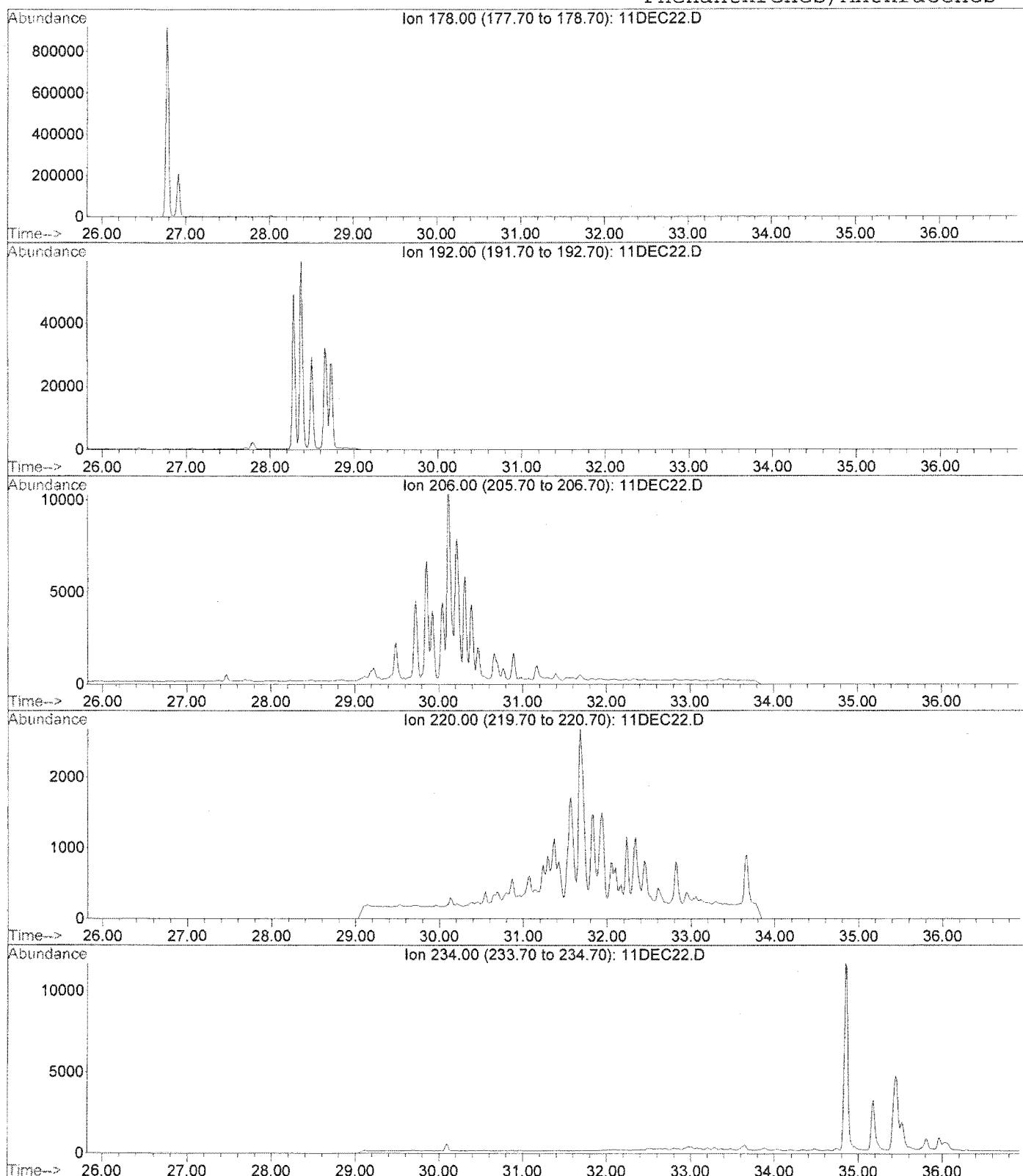
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Instrument: GC2-MS_59 Operator: EC

Fluorenes



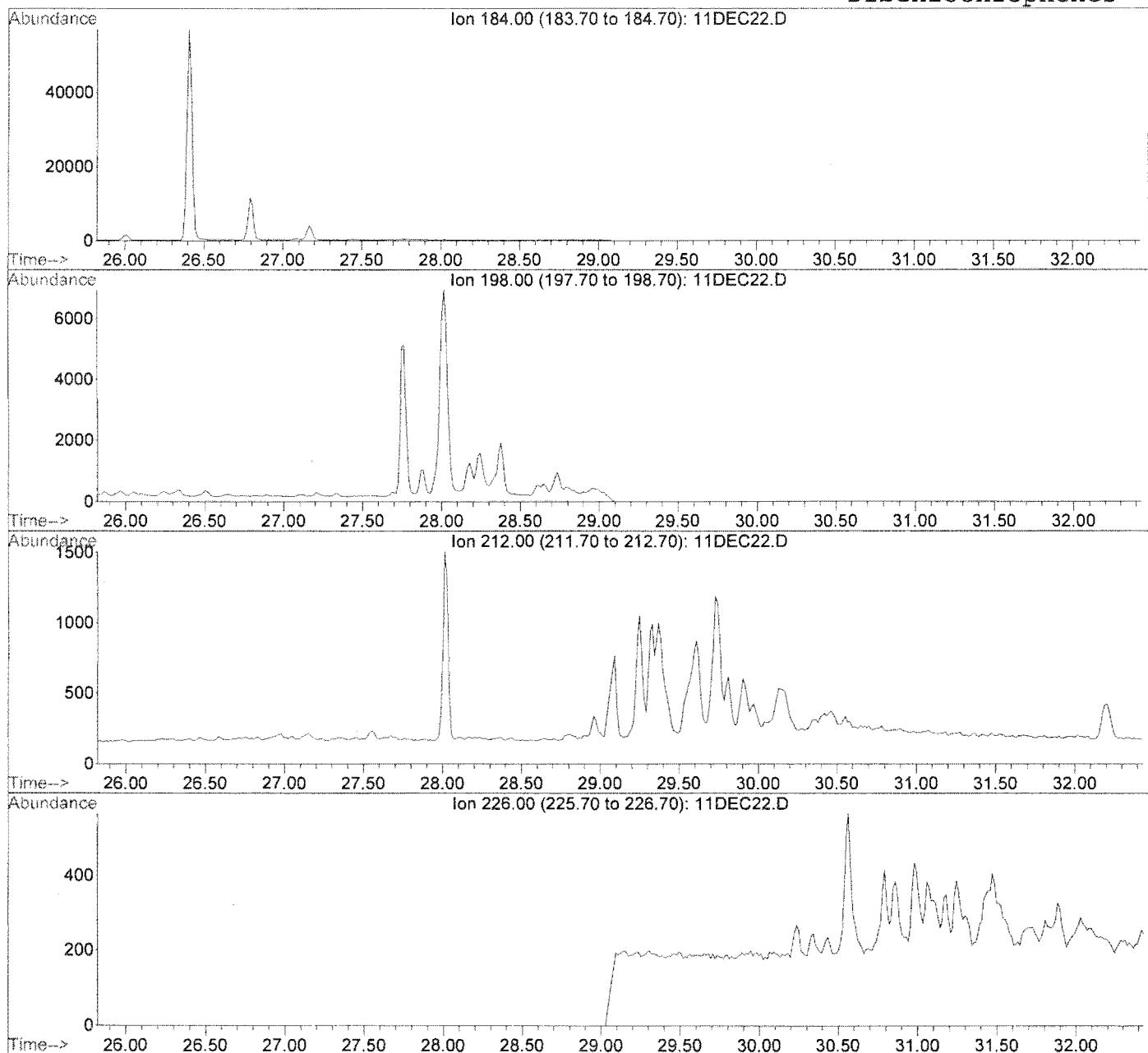
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File: I:\2\DATA\031211\11DEC22.D
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Instrument: GC2-MS_59 Operator: EC

Phenanthrenes/Anthracenes



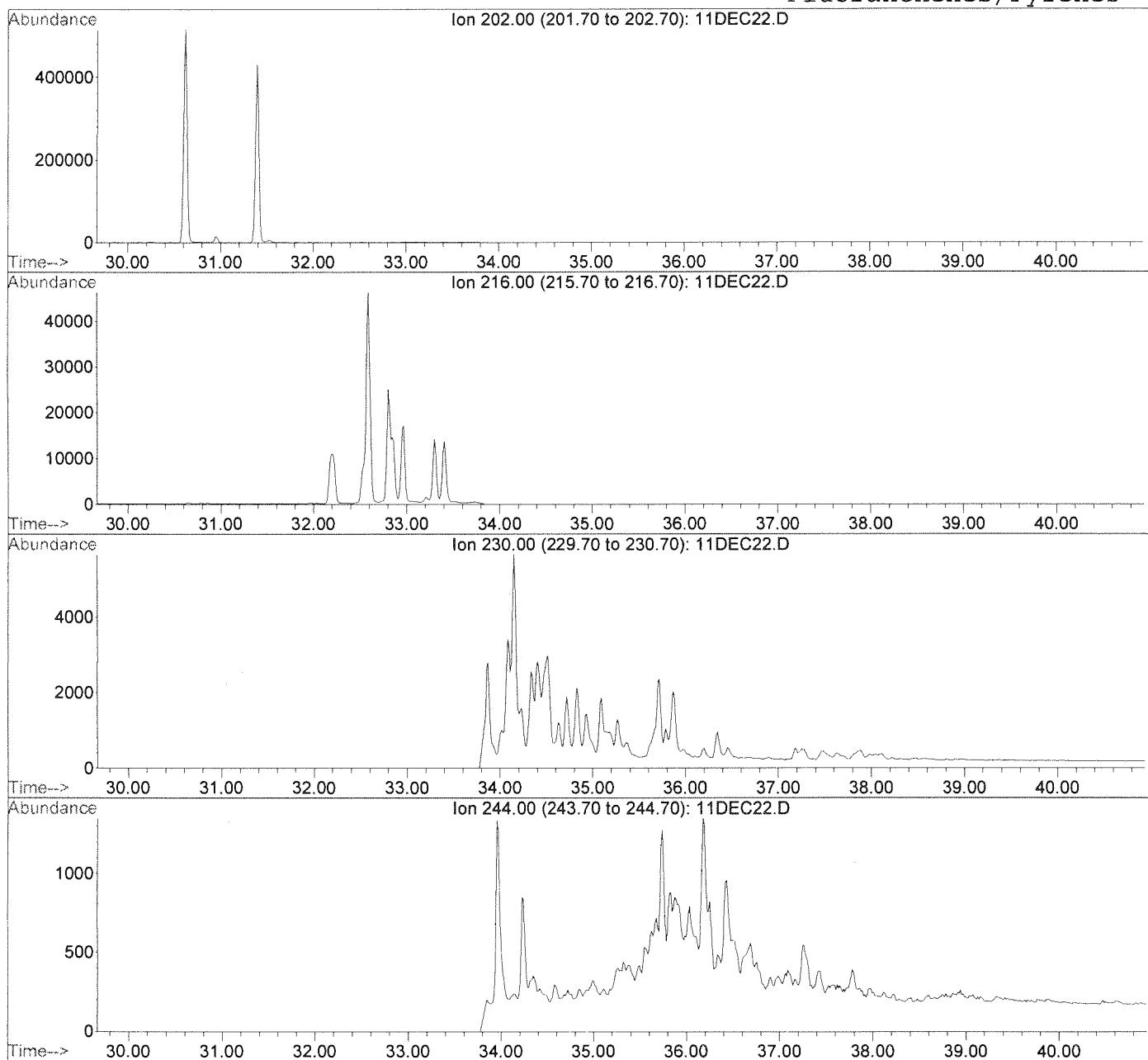
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Lab ID: PA031121-01 1:10
File: I:\2\DATA\031211\11DEC22.D
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Instrument: GC2-MS_59 Operator: EC

Dibenzothiophenes



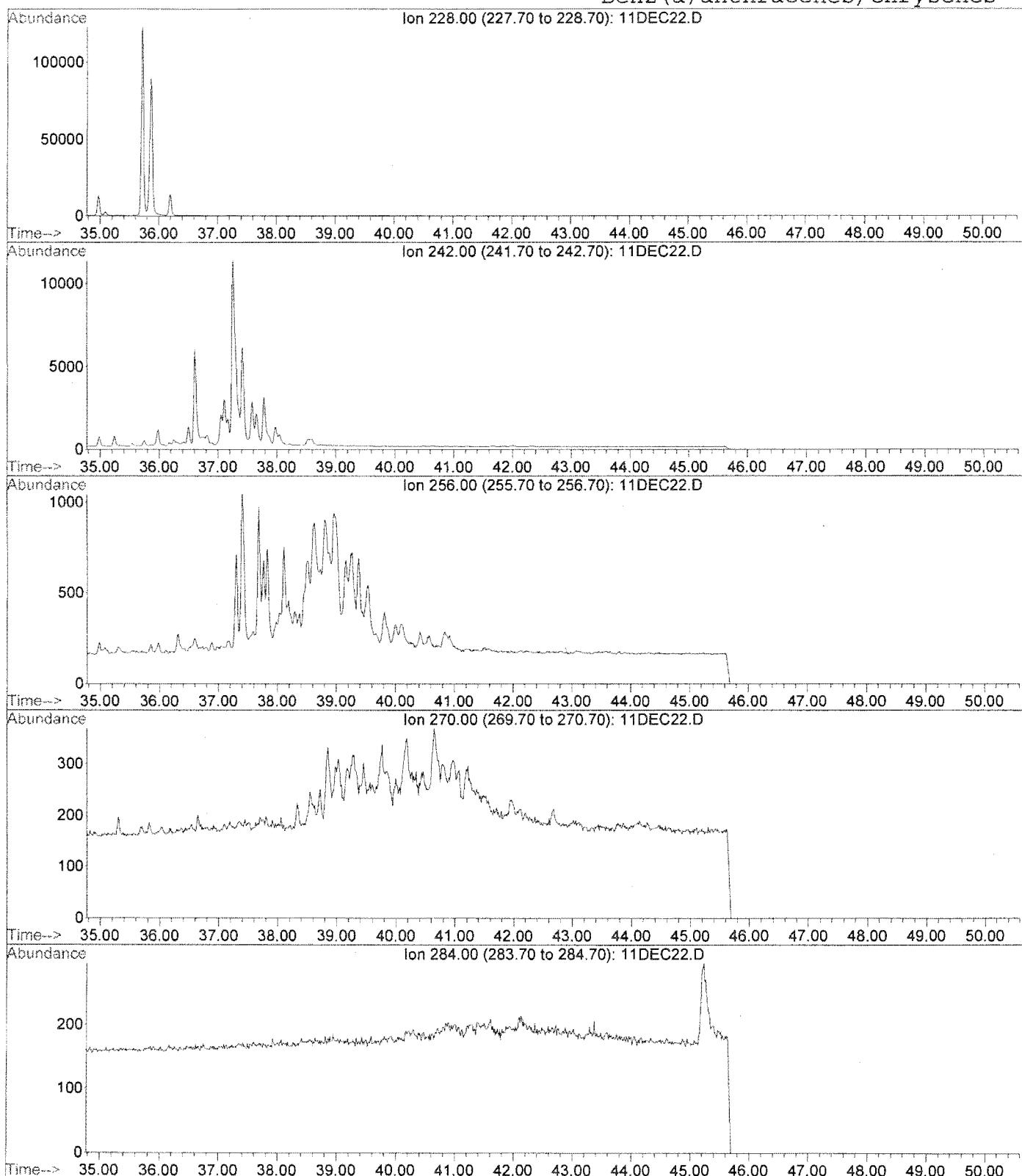
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File: I:\2\DATA\031211\11DEC22.D
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Instrument: GC2-MS_59 Operator: EC

Fluoranthenes/Pyrenes

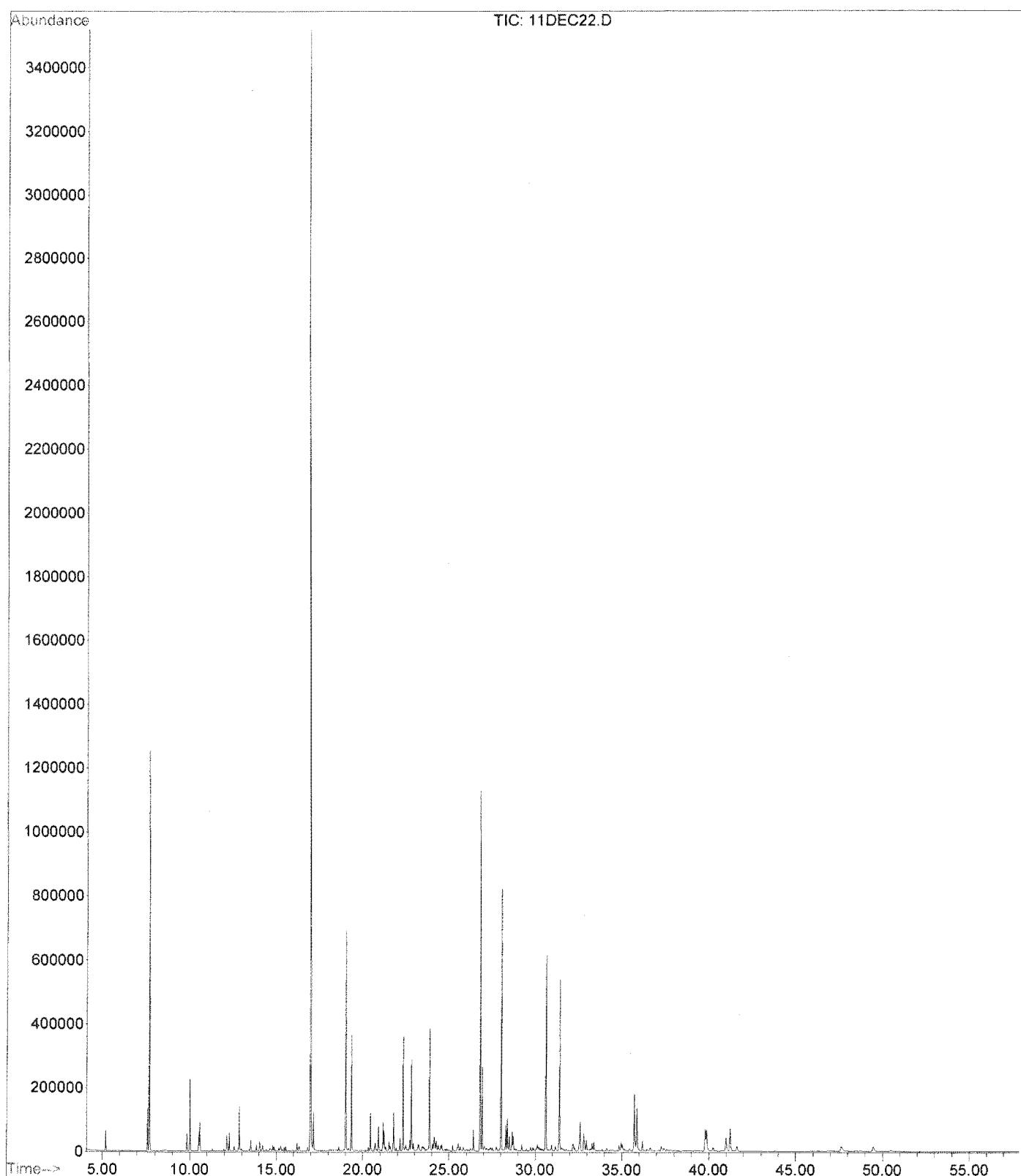


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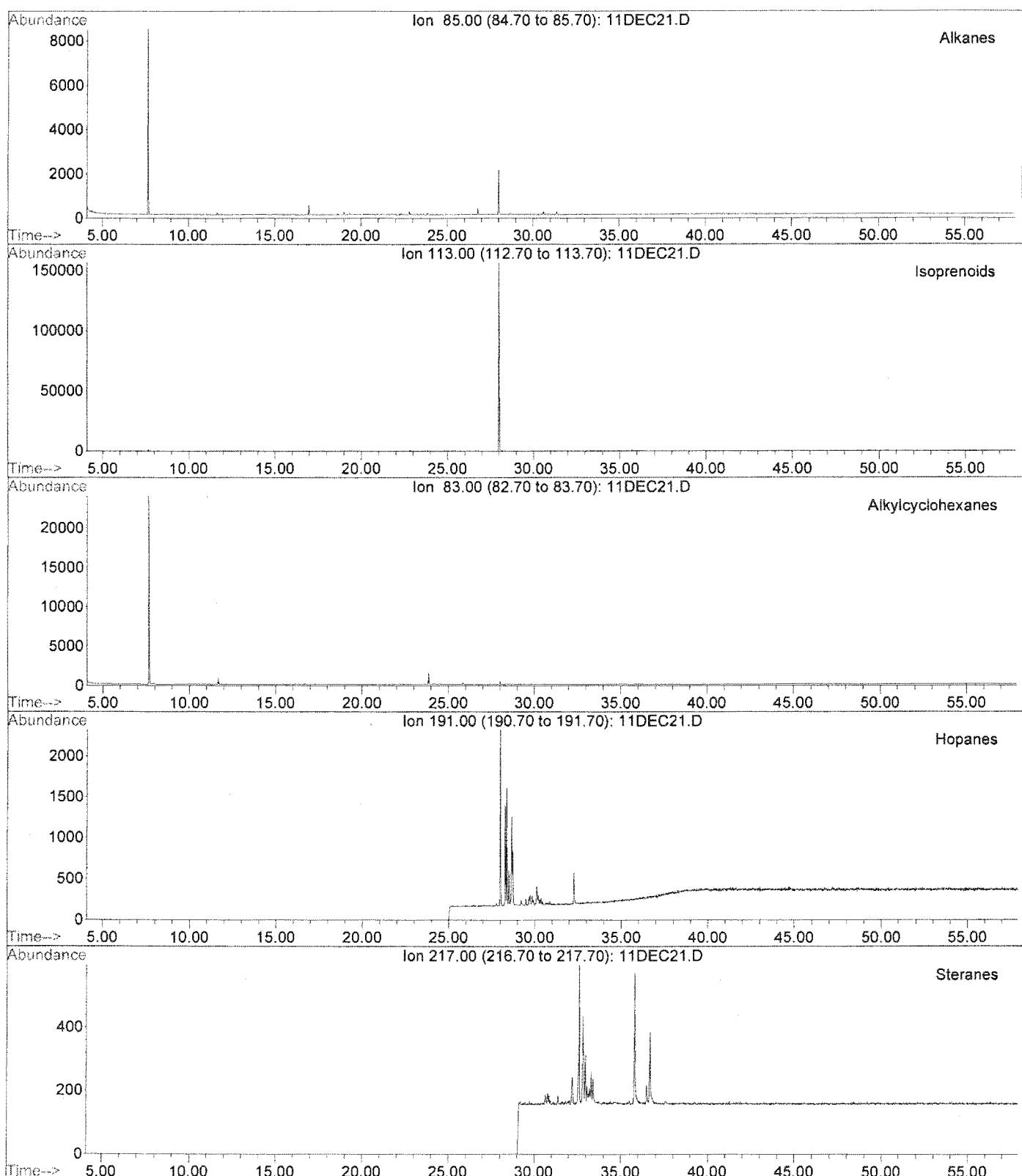
Benz (a)anthracenes/Chrysene



Field ID: MW-104-D
Lab ID: PA031121-01 1:10
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Acquired: 12 Dec 2003 4:21 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

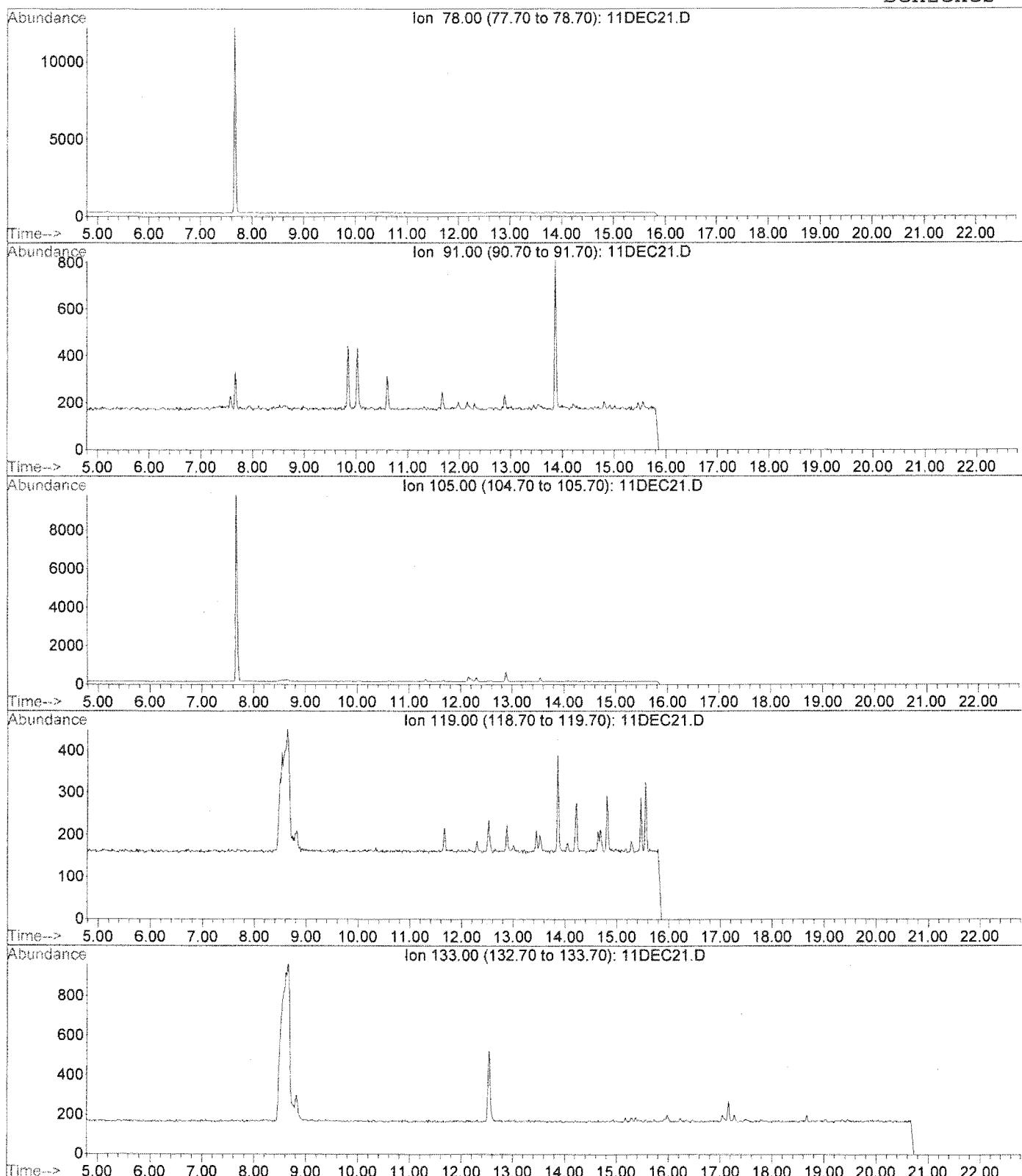


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Acquired: 12 Dec 2003 2:39 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC



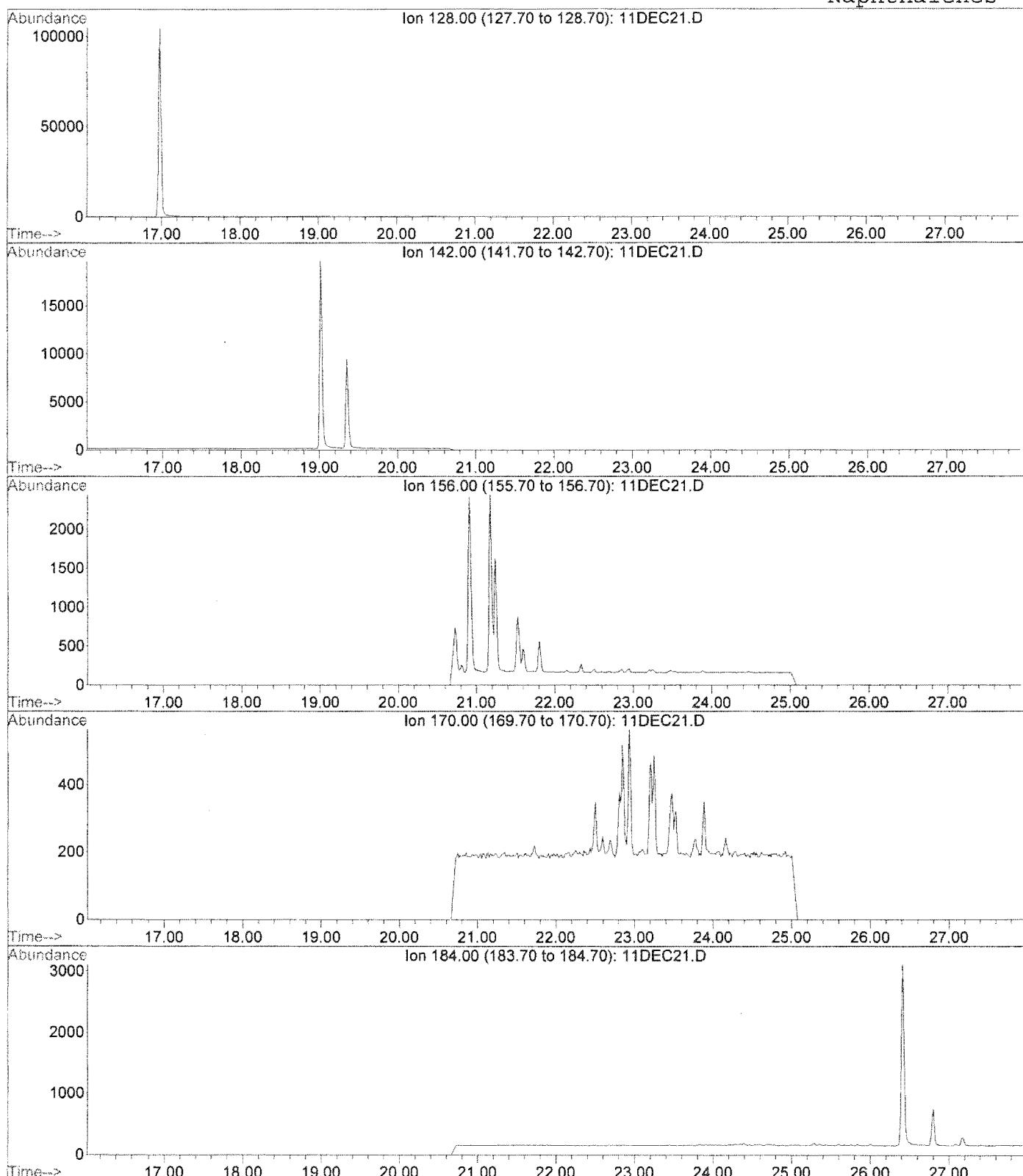
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Instrument: GC2-MS_59 Operator: EC

Benzenes

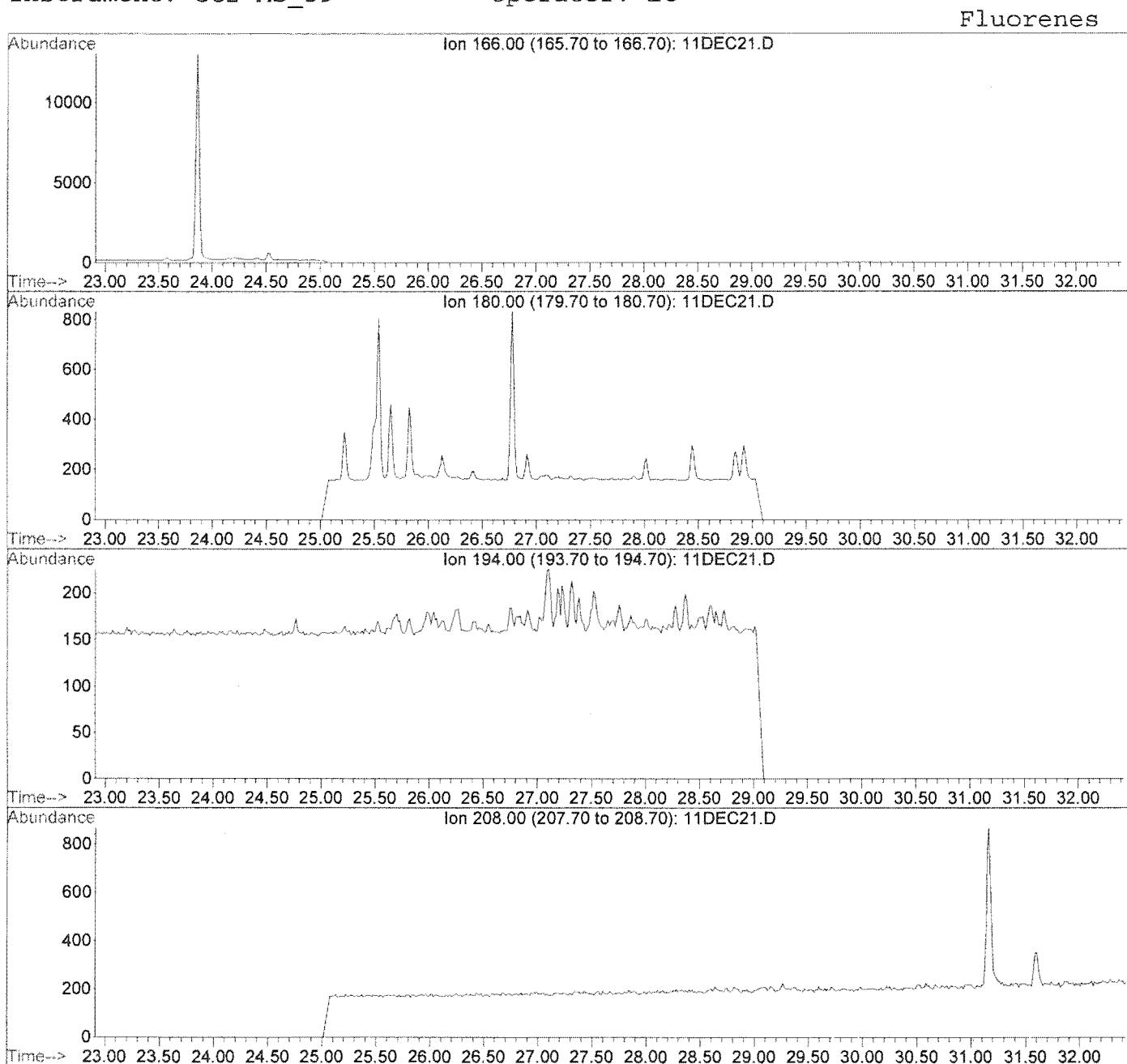


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Lab ID: PA031121-02
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Instrument: GC2-MS_59 Operator: EC

Naphthalenes

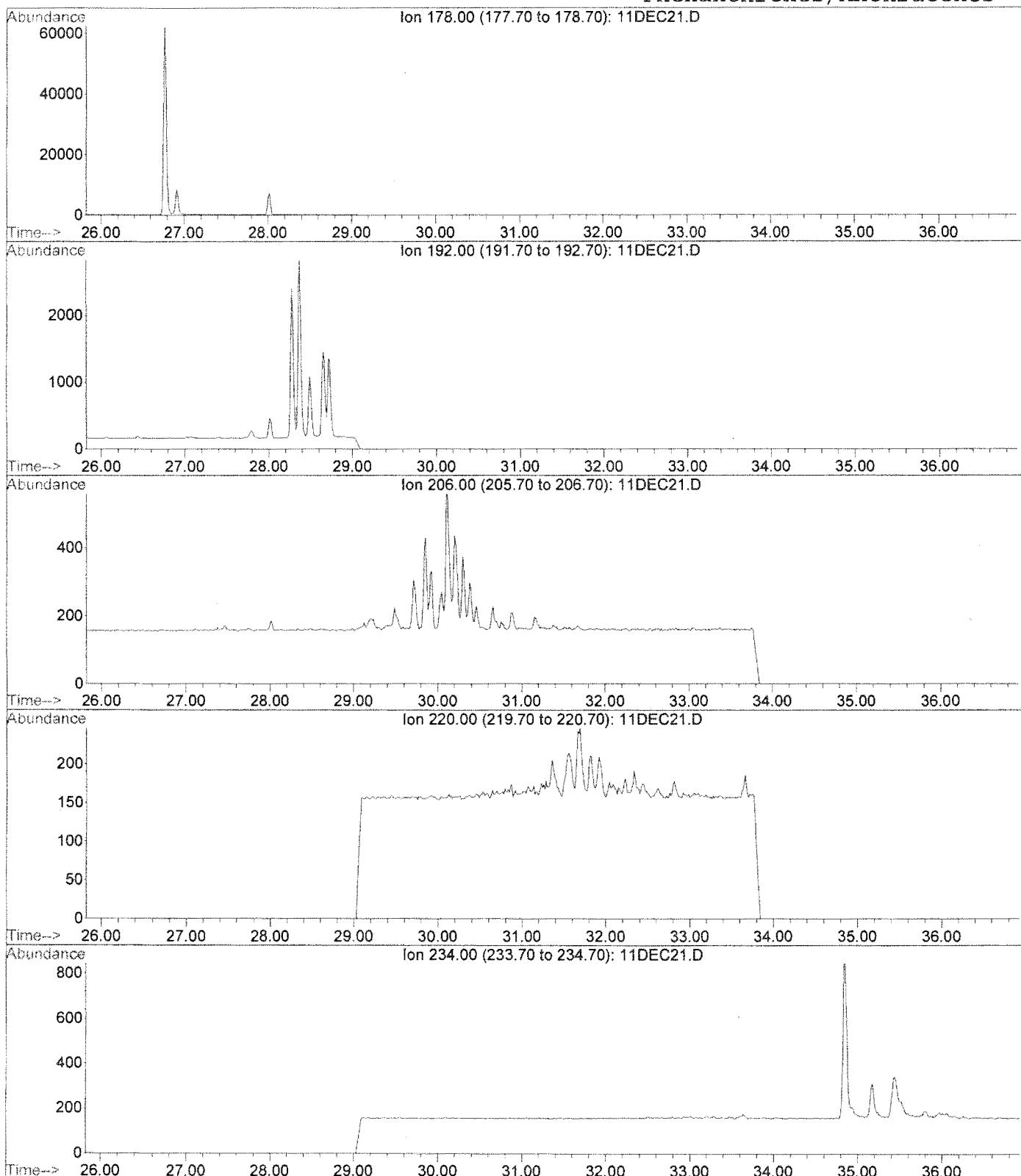


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Instrument: GC2-MS_59 Operator: EC



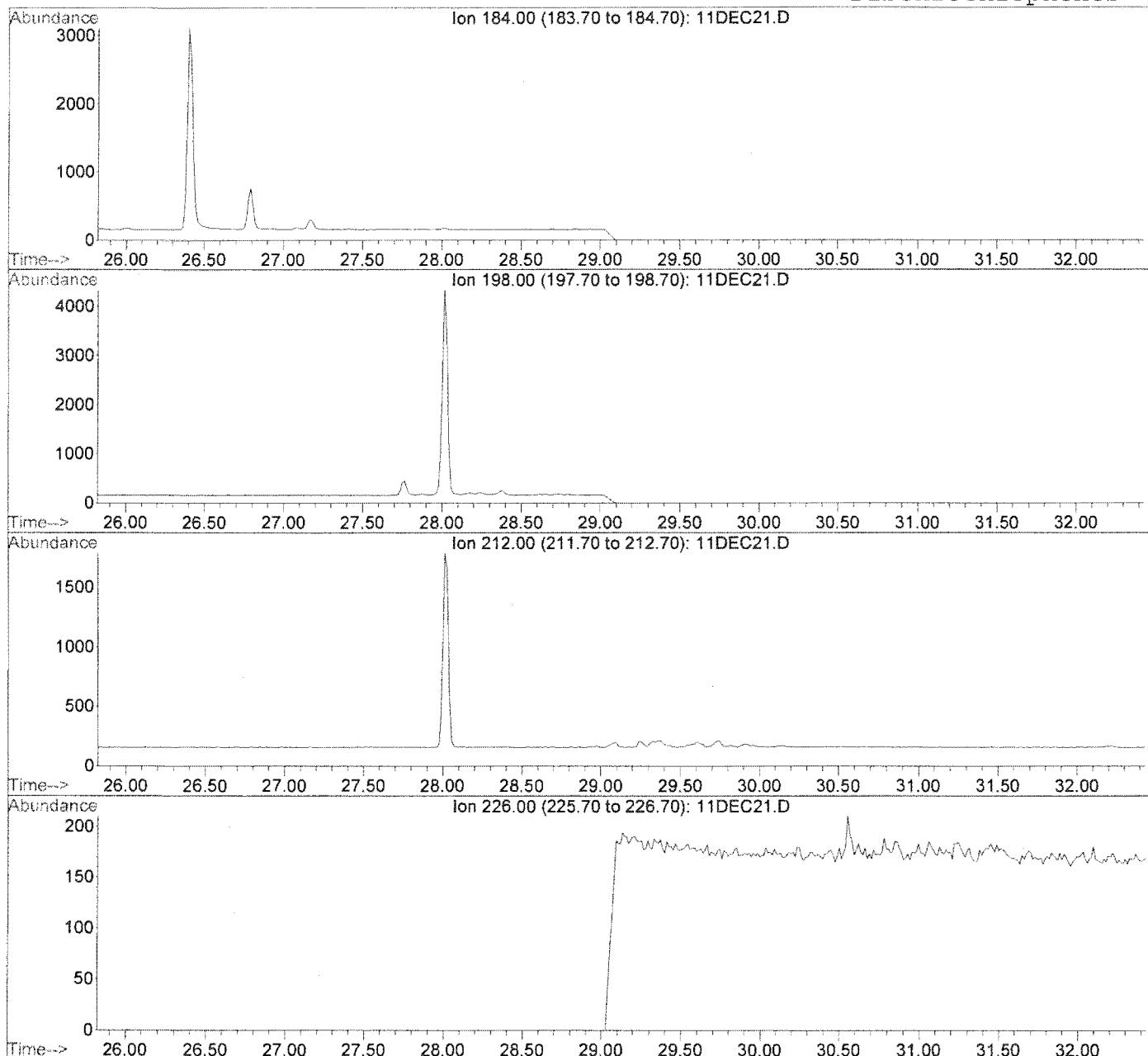
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Lab ID: PA031121-02
File: I:\2\DATA\031211\11DEC21.D
Acquired: 12 Dec 2003 2:39 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Phenanthrenes/Anthracenes



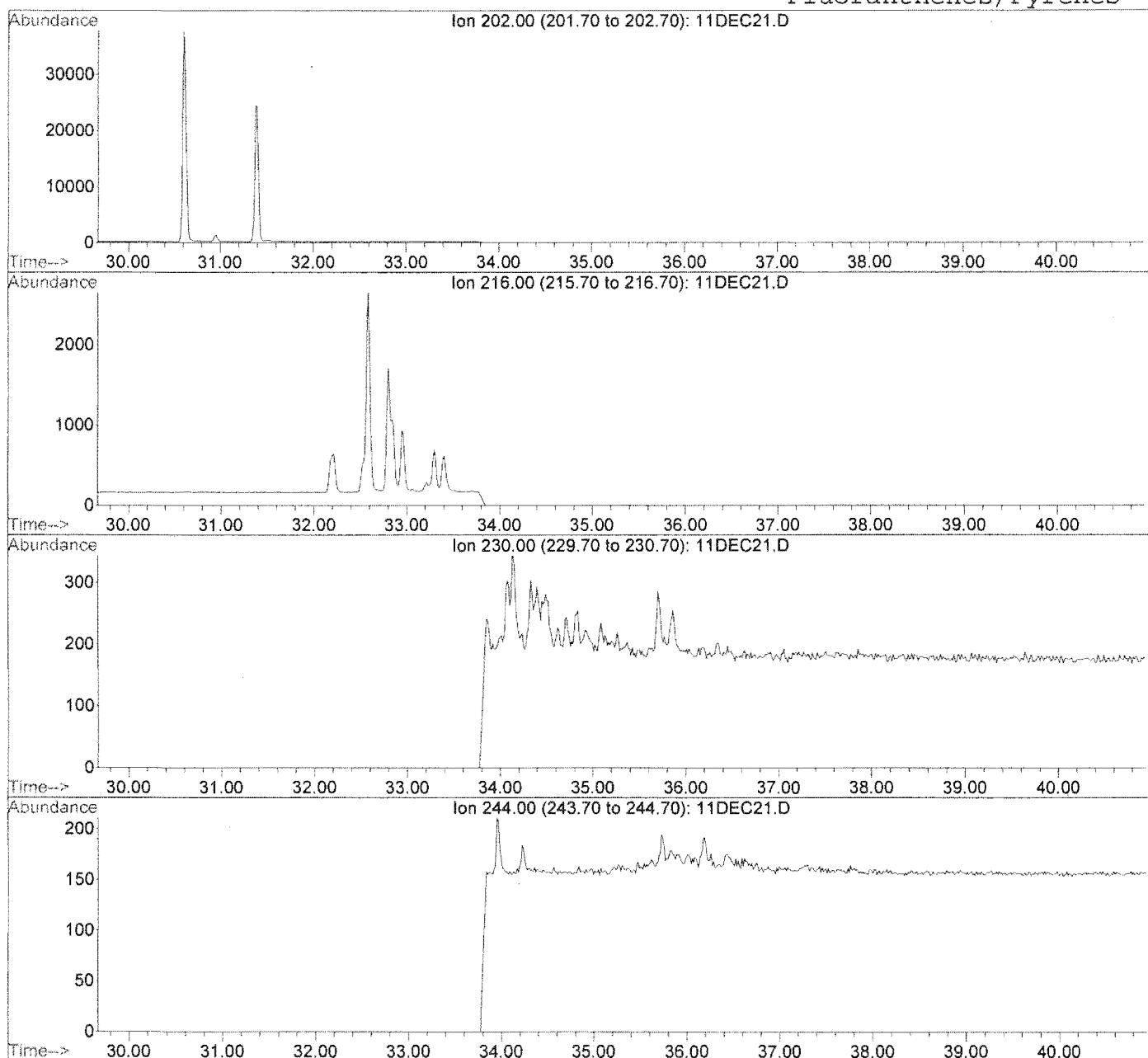
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Lab ID: PA031121-02
File: I:\2\DATA\031211\11DEC21.D
Acquired: 12 Dec 2003 2:39 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Dibenzothiophenes



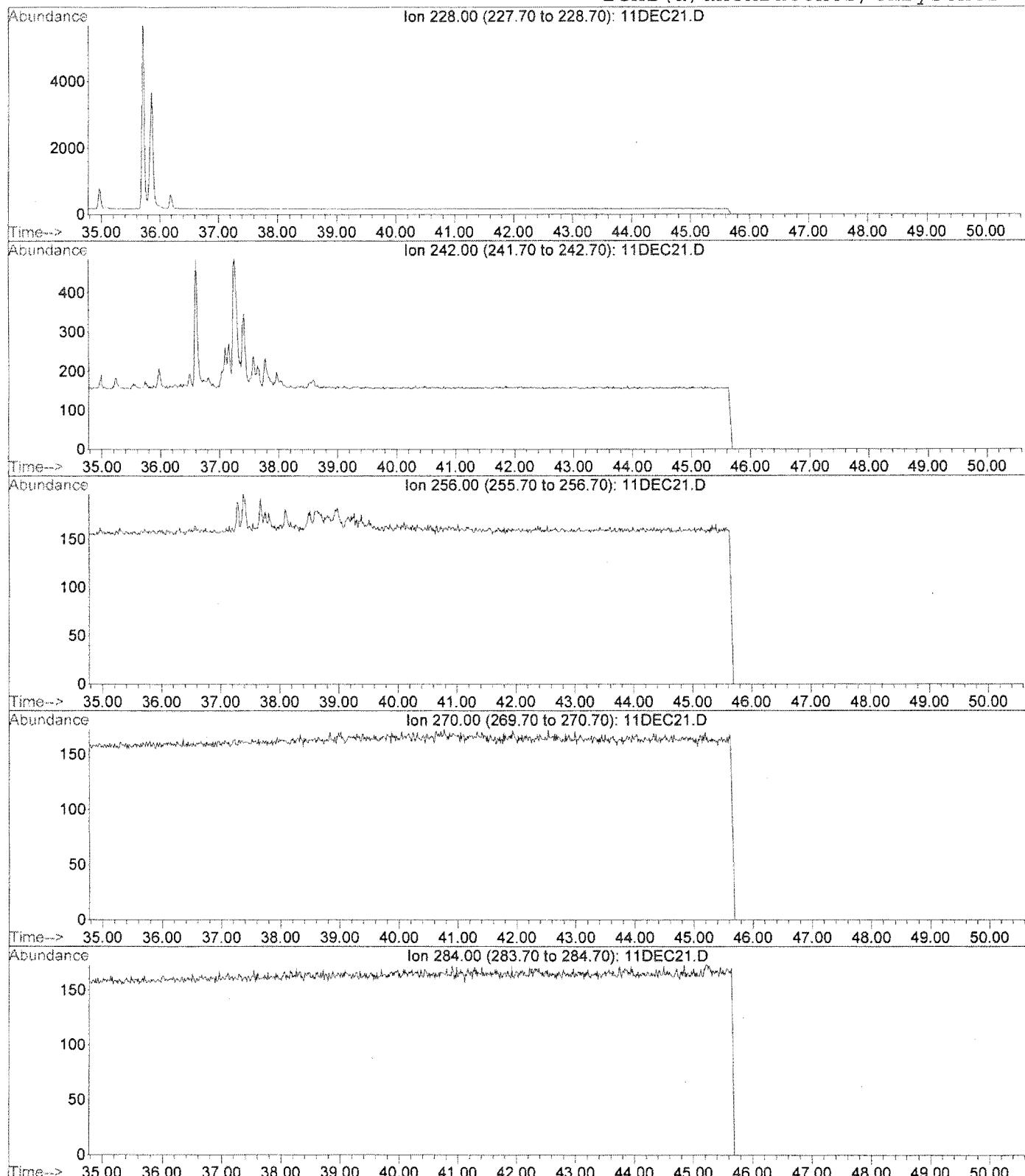
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Lab ID: PA031121-02
File: I:\2\DATA\031211\11DEC21.D
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Instrument: GC2-MS_59 Operator: EC

Fluoranthenes/Pyrenes

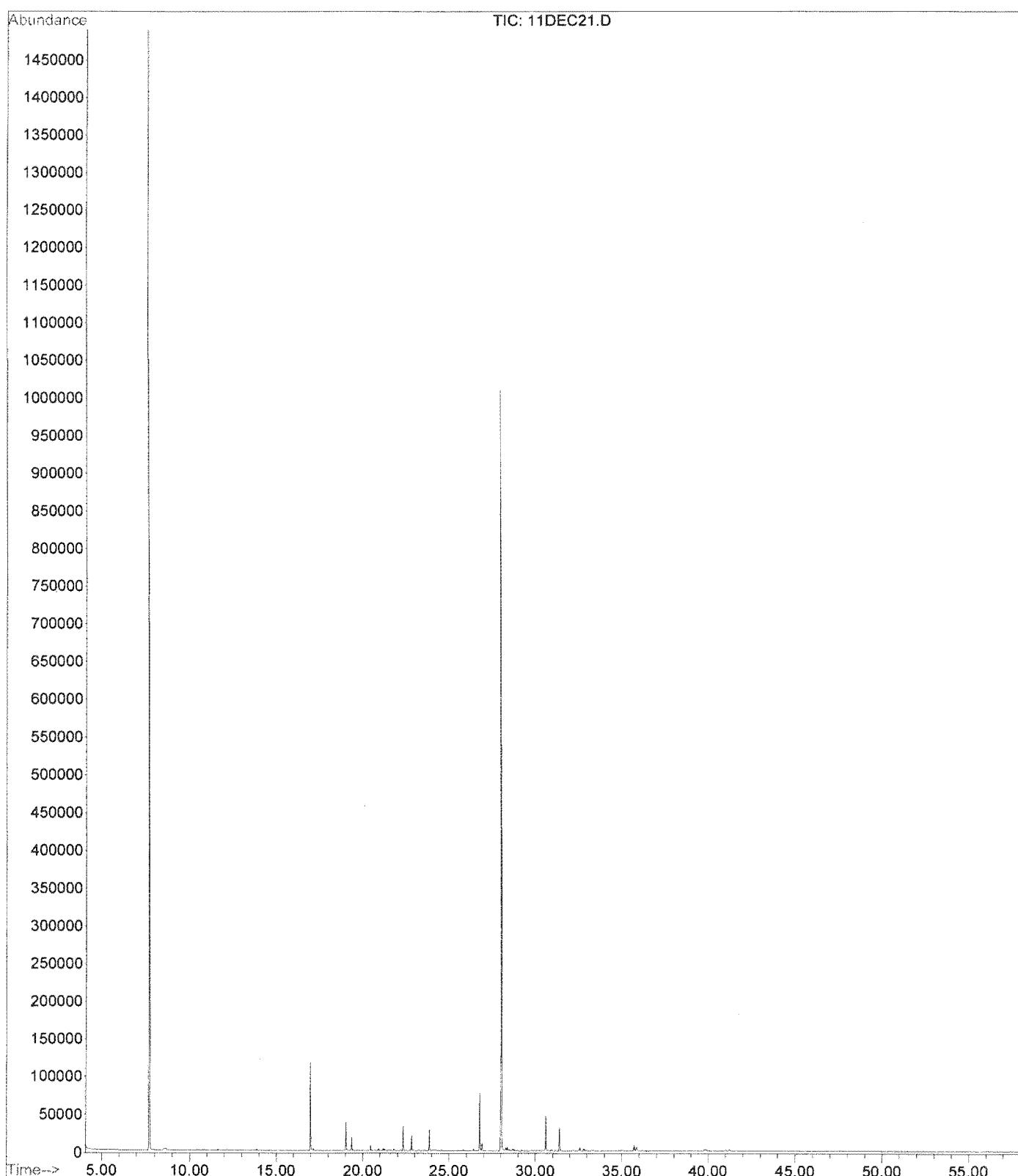


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Lab ID: PA031121-02
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Acquired: 12 Dec 2003 2:39 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

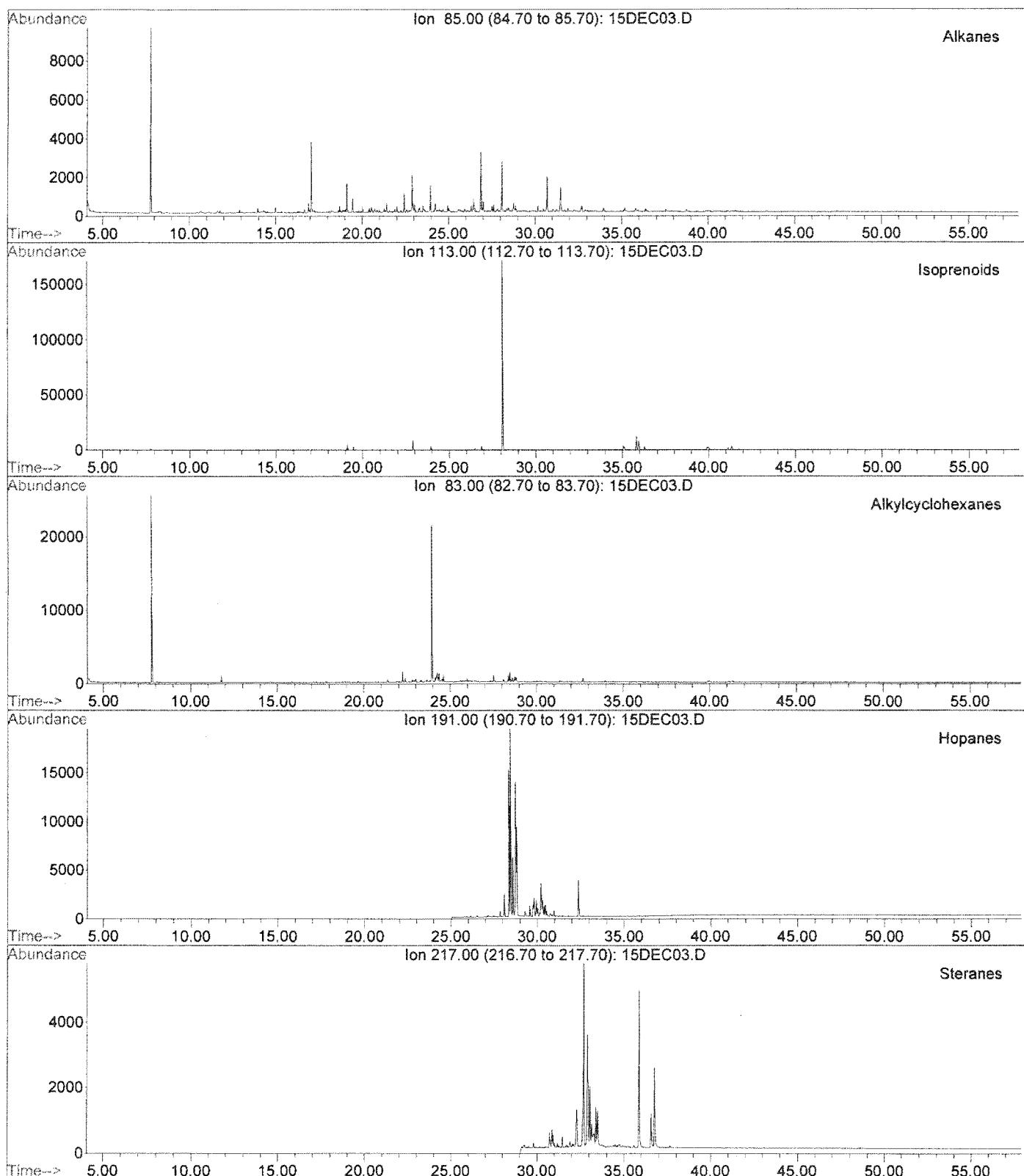
Benz (a) anthracenes/Chrysenes



Field ID: SEEP-1
Lab ID: PA031121-02
File: I:\2\DATA\031211\11DEC21.D
Acquired: 12 Dec 2003 2:39 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

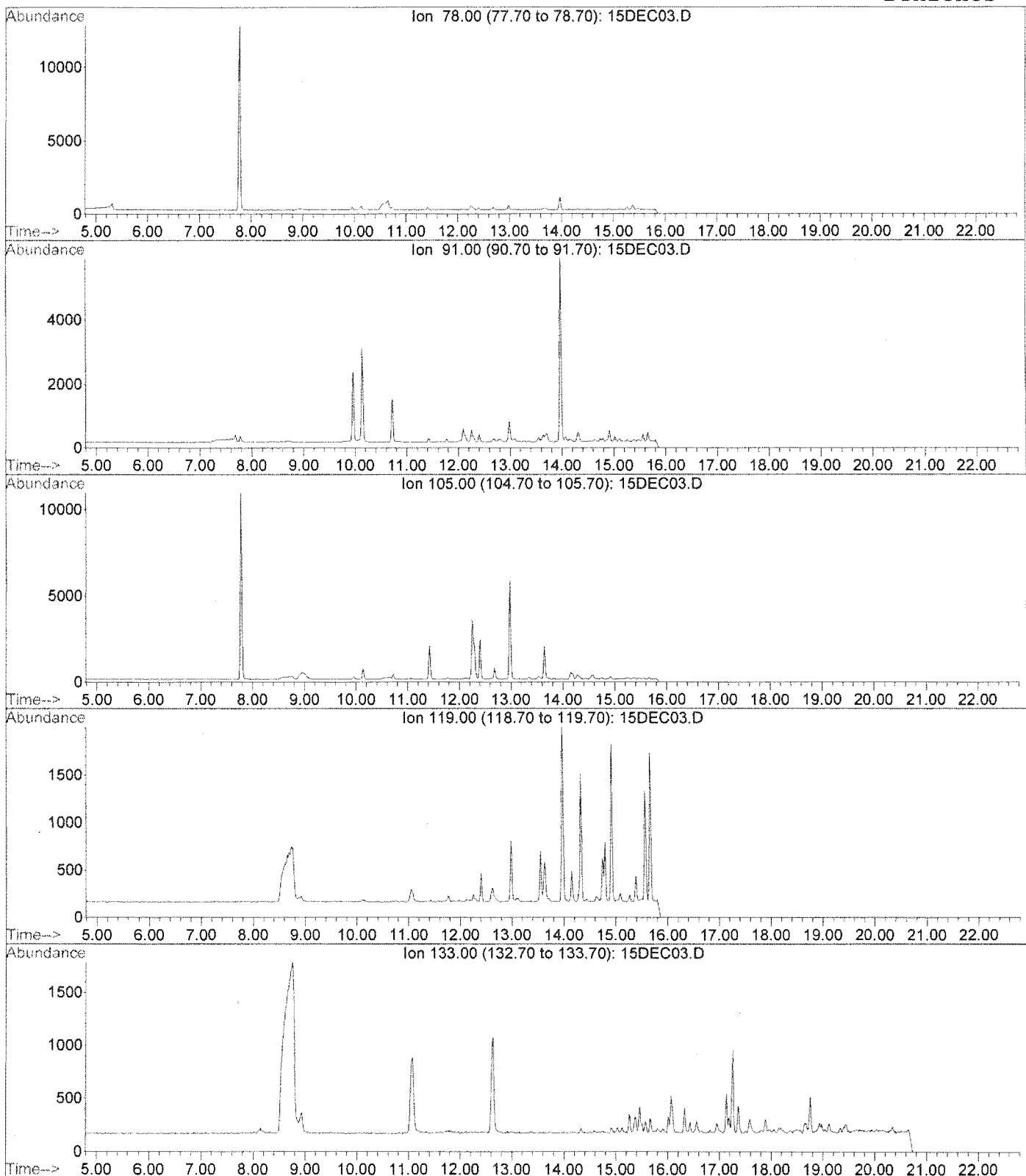


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Lab ID: PA031121-03 1:10
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Acquired: 15 Dec 2003 5:00 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC



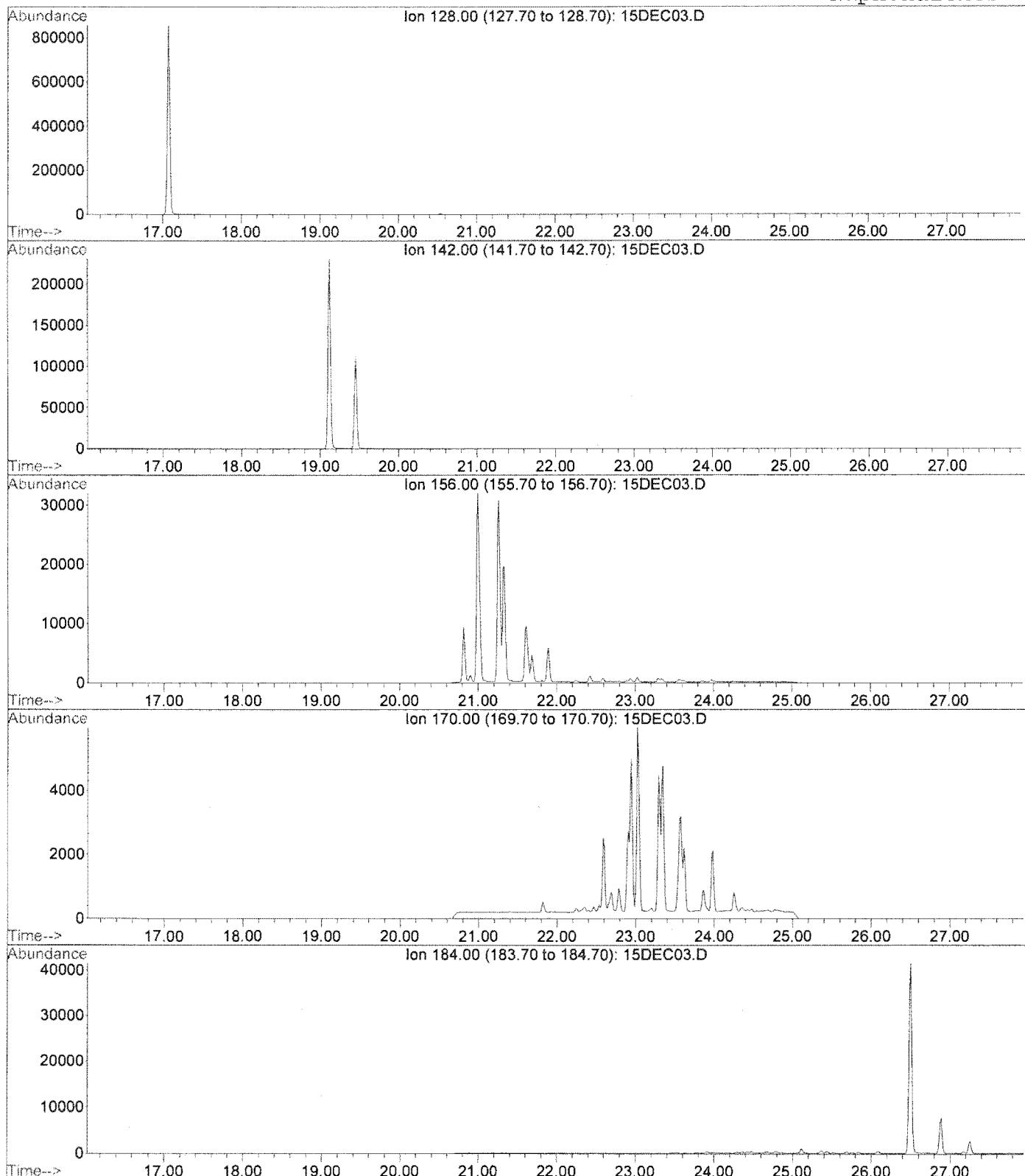
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Lab ID: PA031121-03 1:10
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Acquired: 15 Dec 2003 5:00 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Benzenes

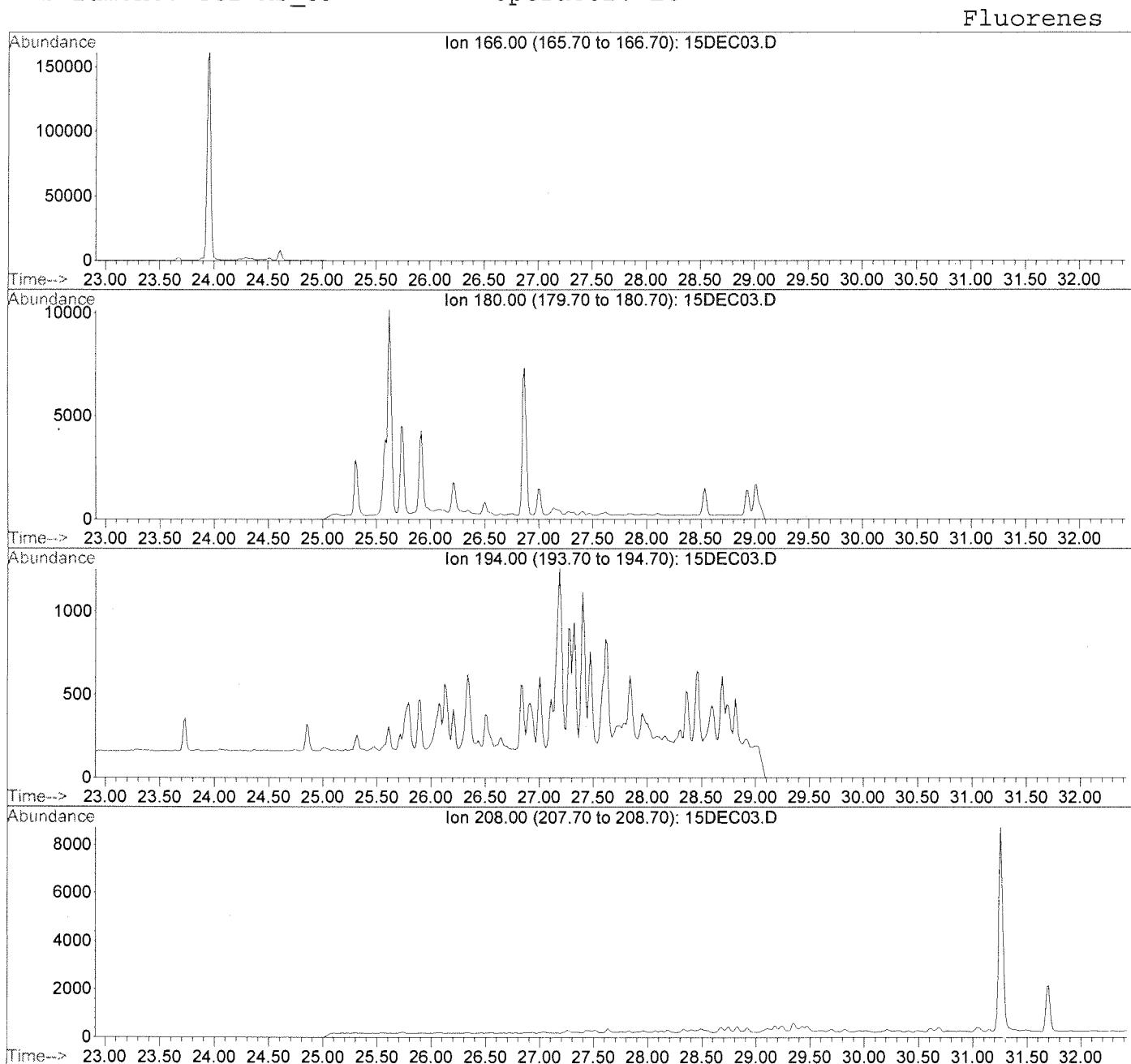


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Instrument: GC2-MS_59 Operator: EC

Naphthalenes

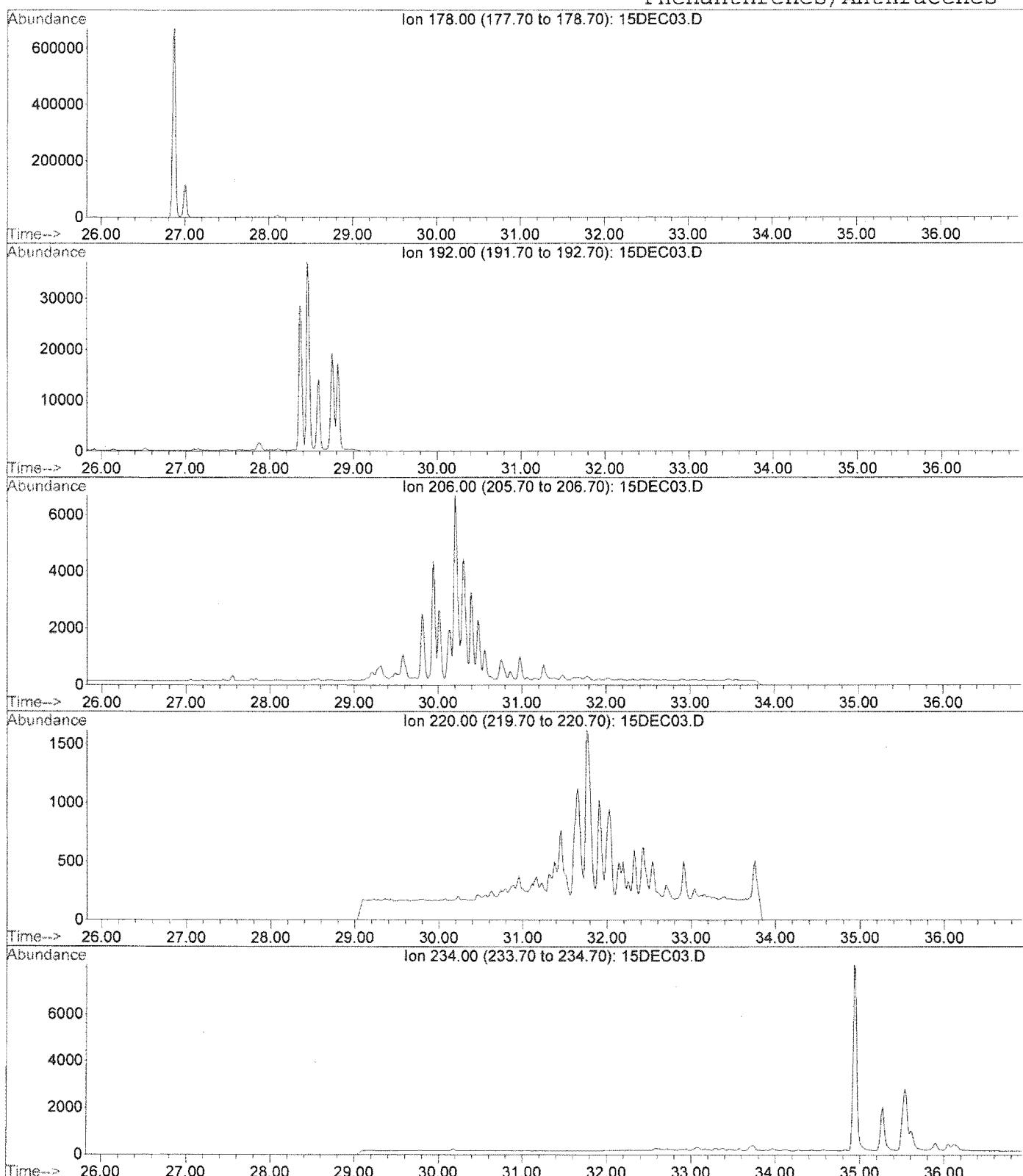


Field ID: SEEP-2
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File: I:\2\DATA\031215\15DEC03.D
Acquired: 15 Dec 2003 5:00 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC



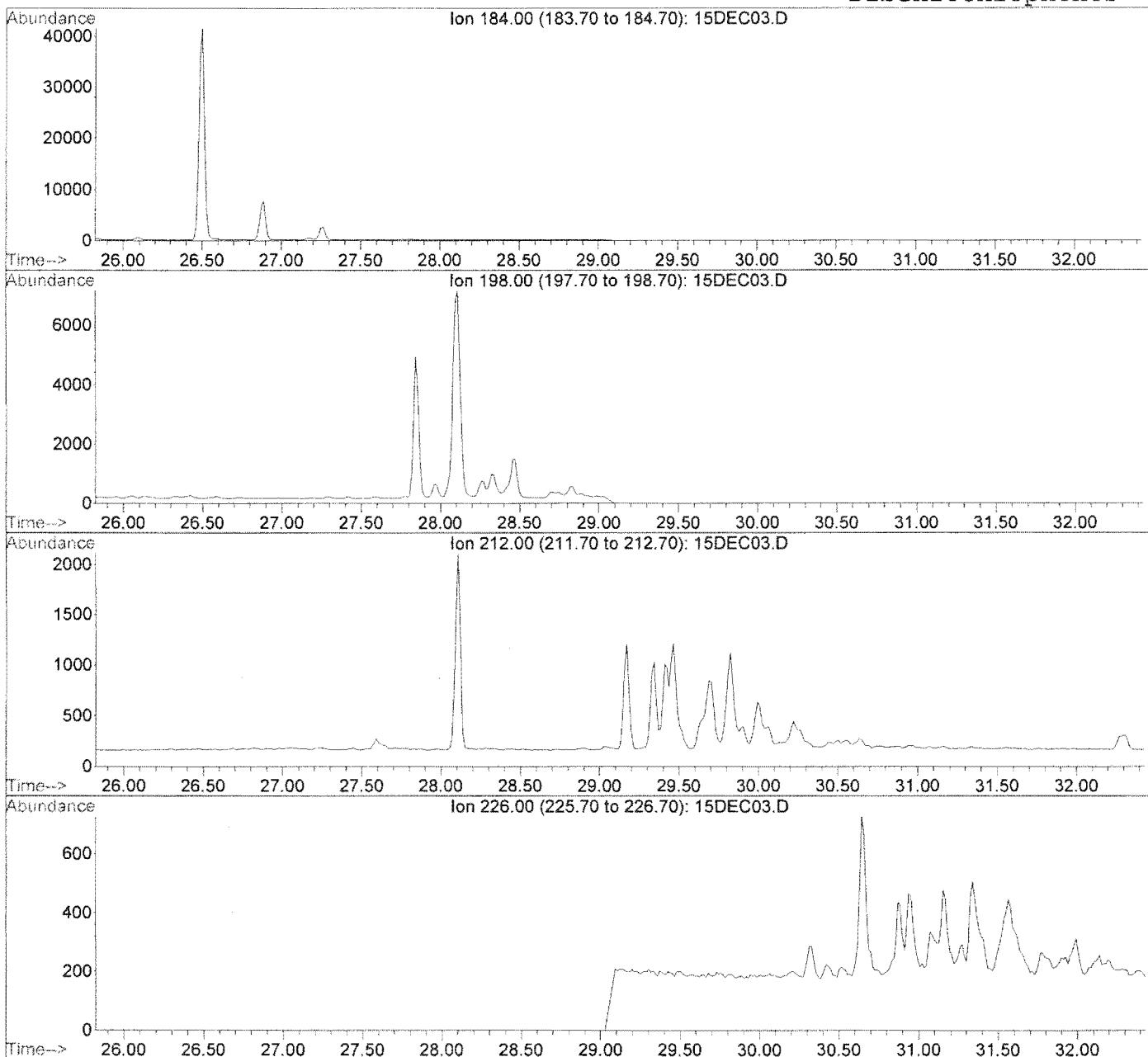
Field ID: SEEP-2
Lab ID: PA031121-03 1:10
File: I:\2\DATA\031215\15DEC03.D
Acquired: 15 Dec 2003 5:00 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Phenanthrenes/Anthracenes



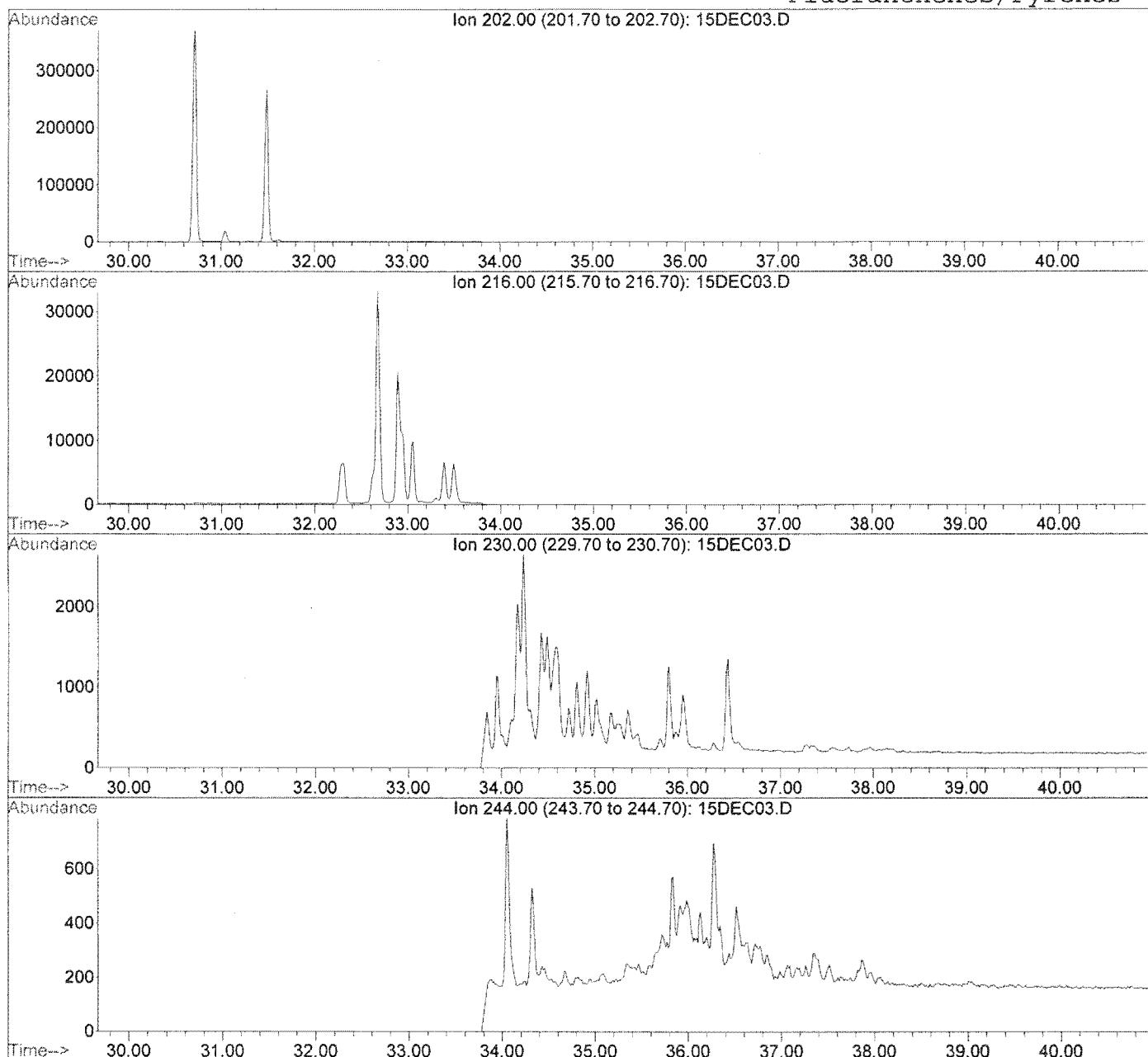
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Lab ID: PA031121-03 1:10
File: I:\2\DATA\031215\15DEC03.D
Acquired: 15 Dec 2003 5:00 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Dibenzothiophenes



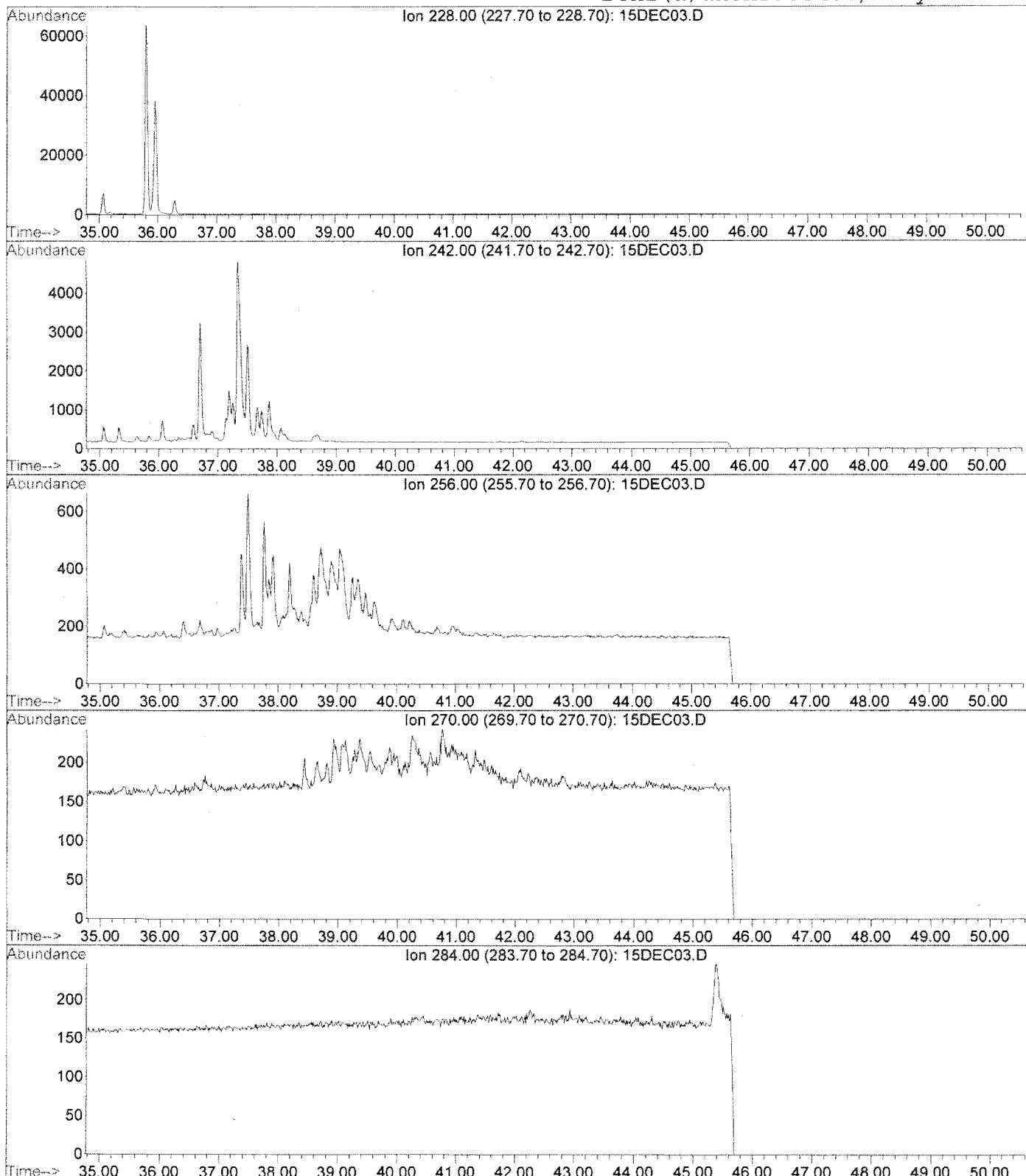
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Instrument: GC2-MS_59 Operator: EC

Fluoranthenes/Pyrenes

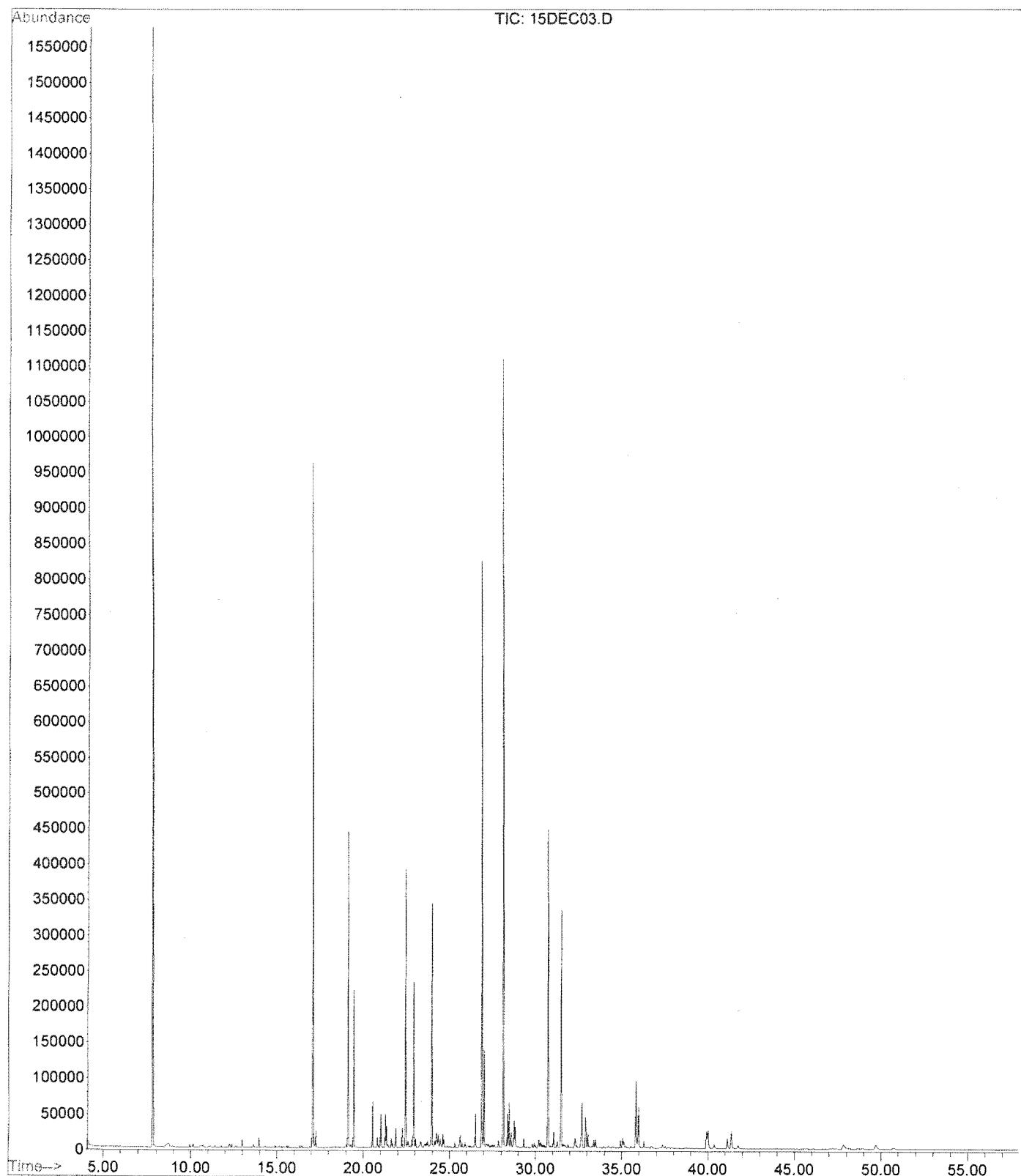


Field ID: SEEP-2
Lab ID: PA031121-03 1:10
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Instrument: GC2-MS_59 Operator: EC

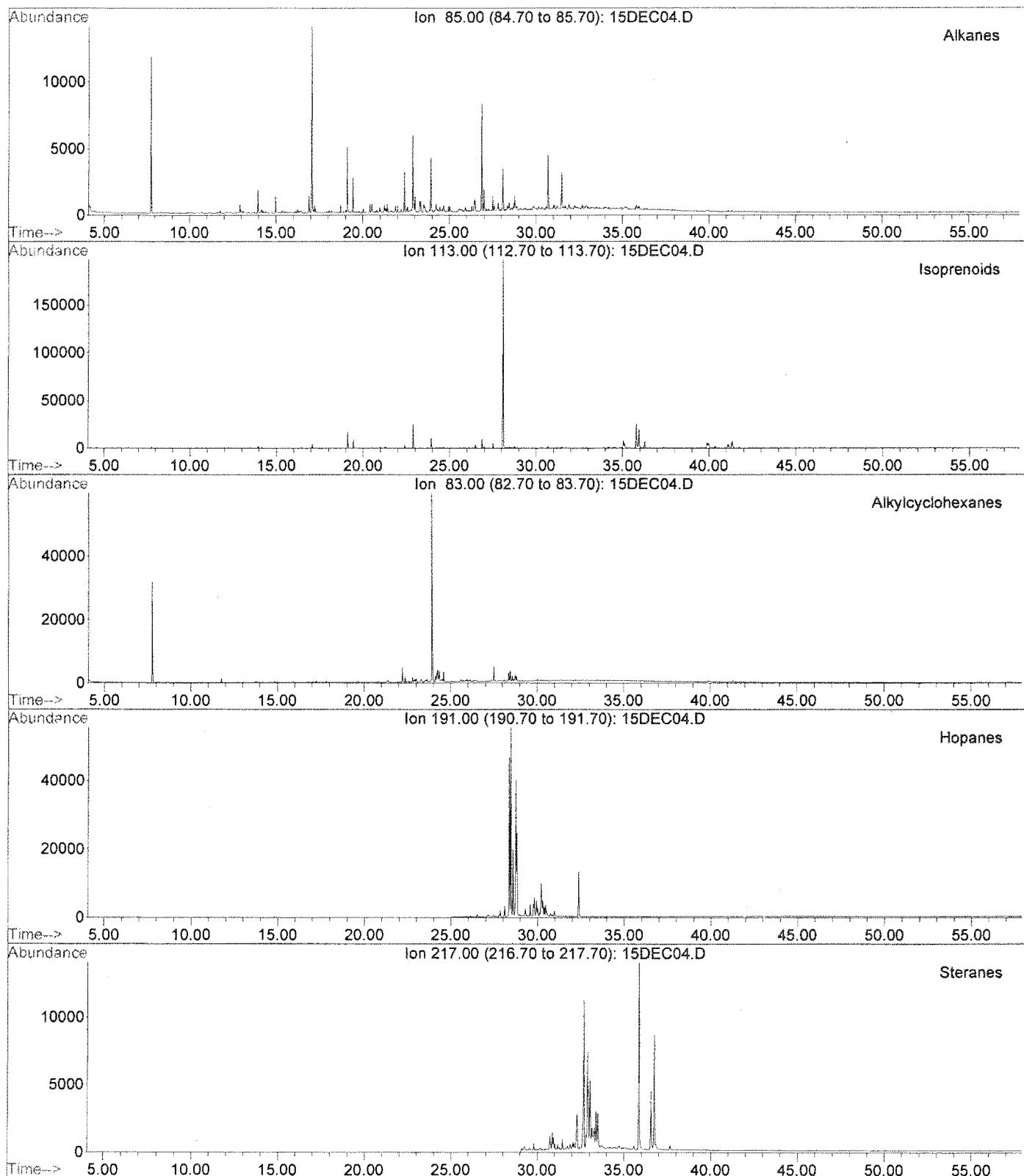
Benz (a) anthracenes/Chrysene



Field ID: SEEP-2
Lab ID: PA031121-03 1:10
File: I:\2\DATA\031215\15DEC03.D
Acquired: 15 Dec 2003 5:00 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

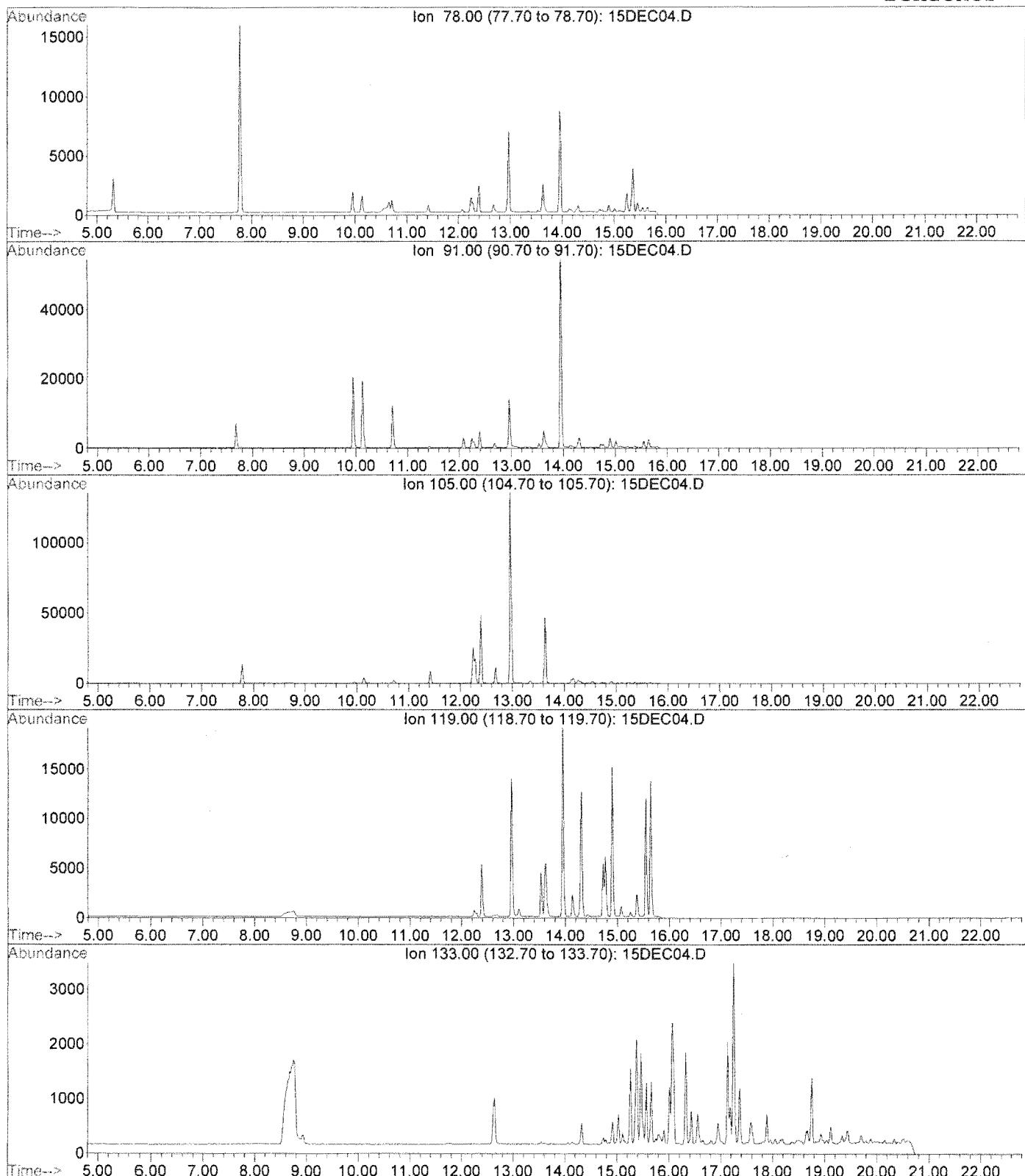


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Lab ID: PA031121-04 1:10
File: I:\2\DATA\031215\15DEC04.D
Acquired: 15 Dec 2003 6:10 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC



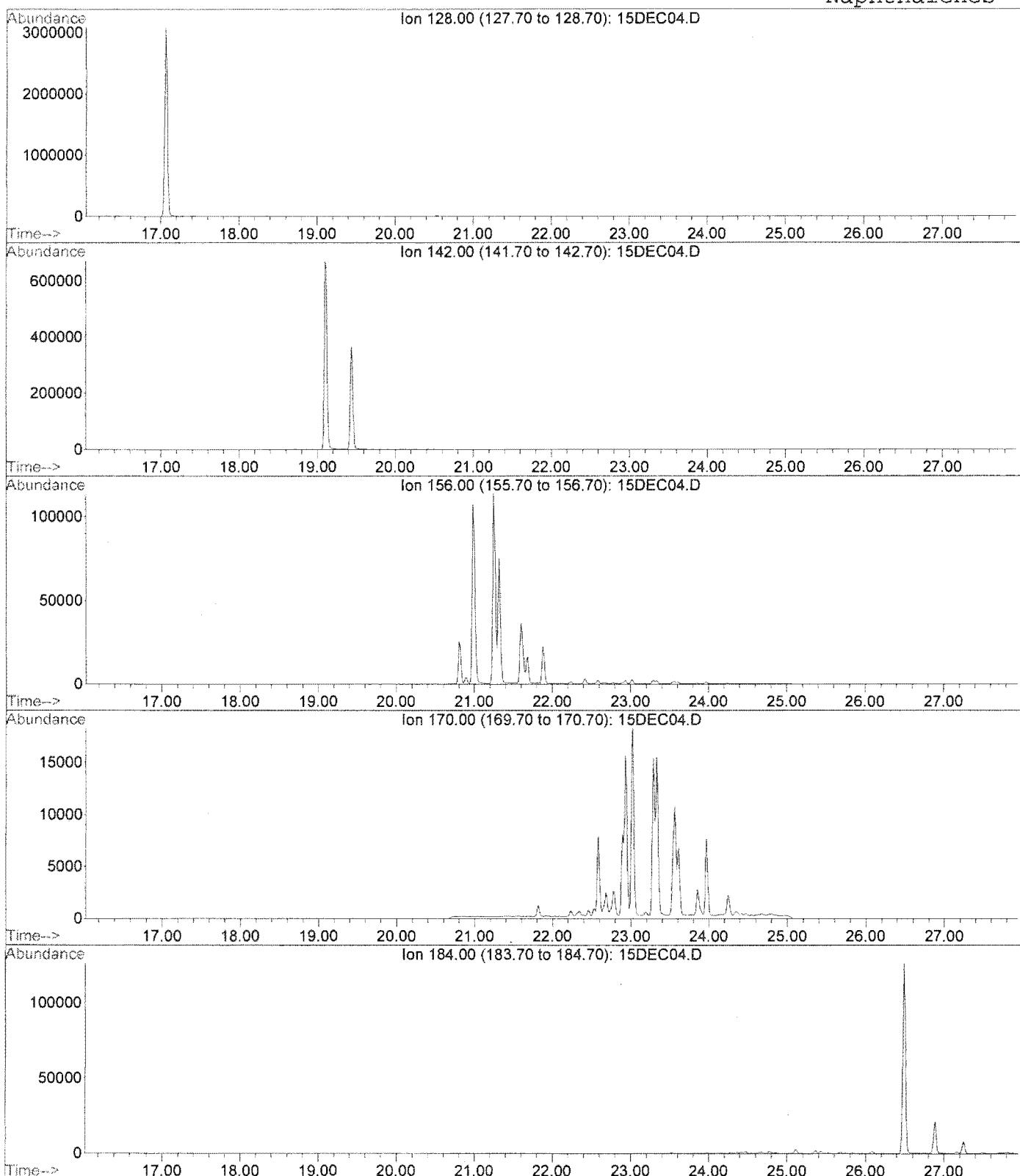
Field ID: MW-105-D
Lab ID: PA031121-04 1:10
File: I:\2\DATA\031215\15DEC04.D
Acquired: 15 Dec 2003 6:10 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Benzenes

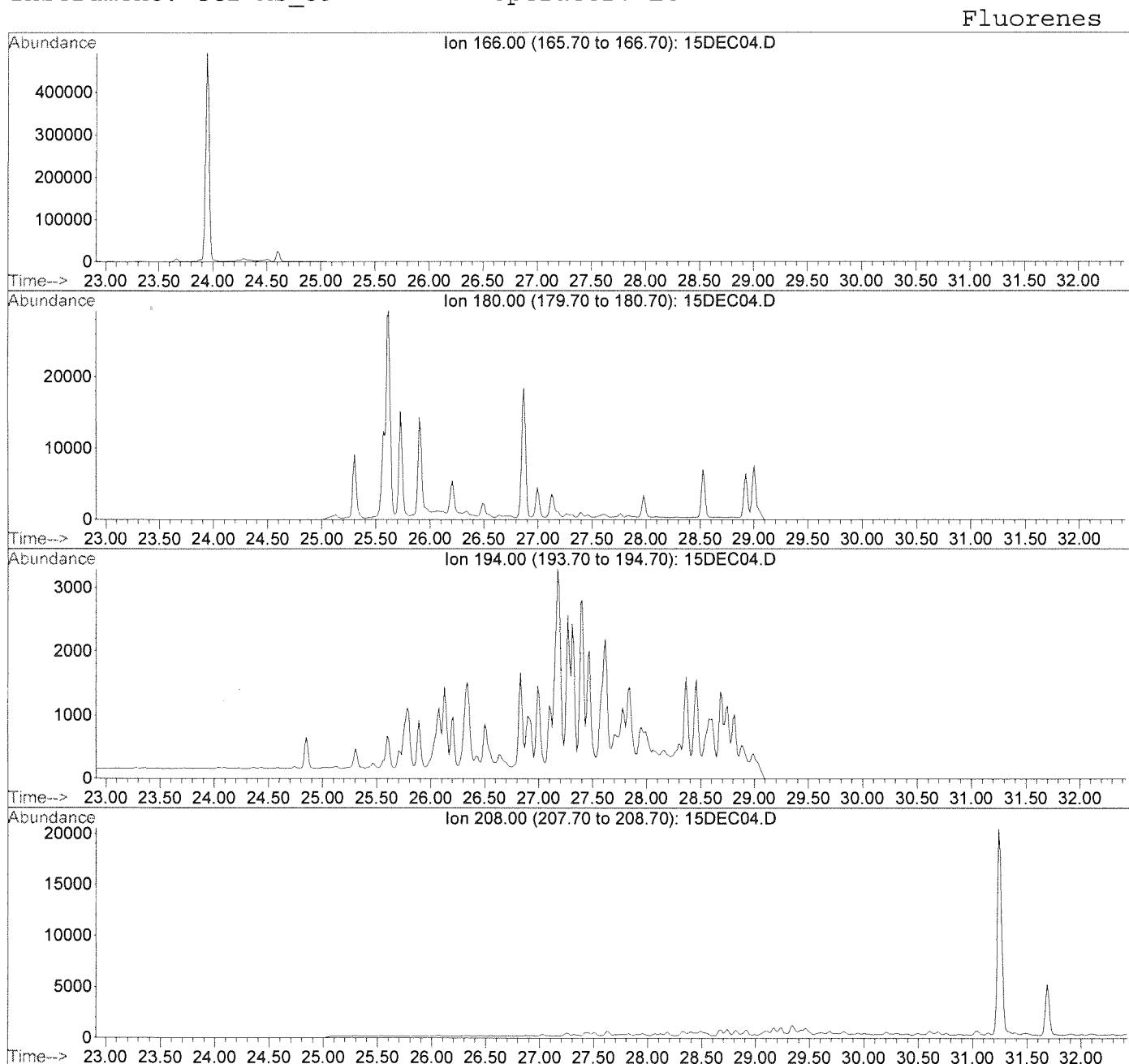


Field ID: MW-105-D
Lab ID: PA031121-04 1:10
File: I:\2\DATA\031215\15DEC04.D
Acquired: 15 Dec 2003 6:10 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Naphthalenes

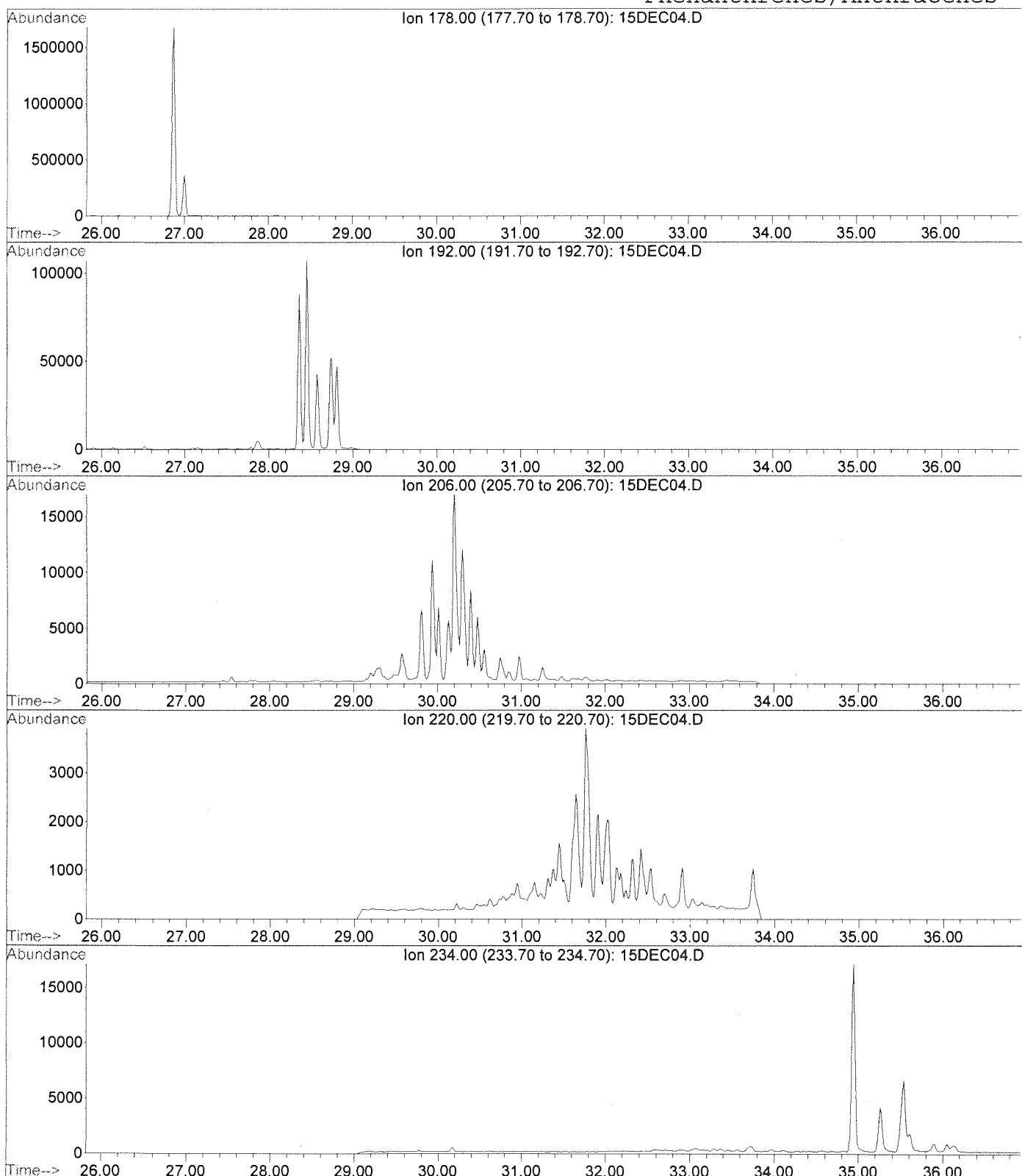


Field ID: MW-105-D
Lab ID: PA031121-04 1:10
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Acquired: 15 Dec 2003 6:10 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC



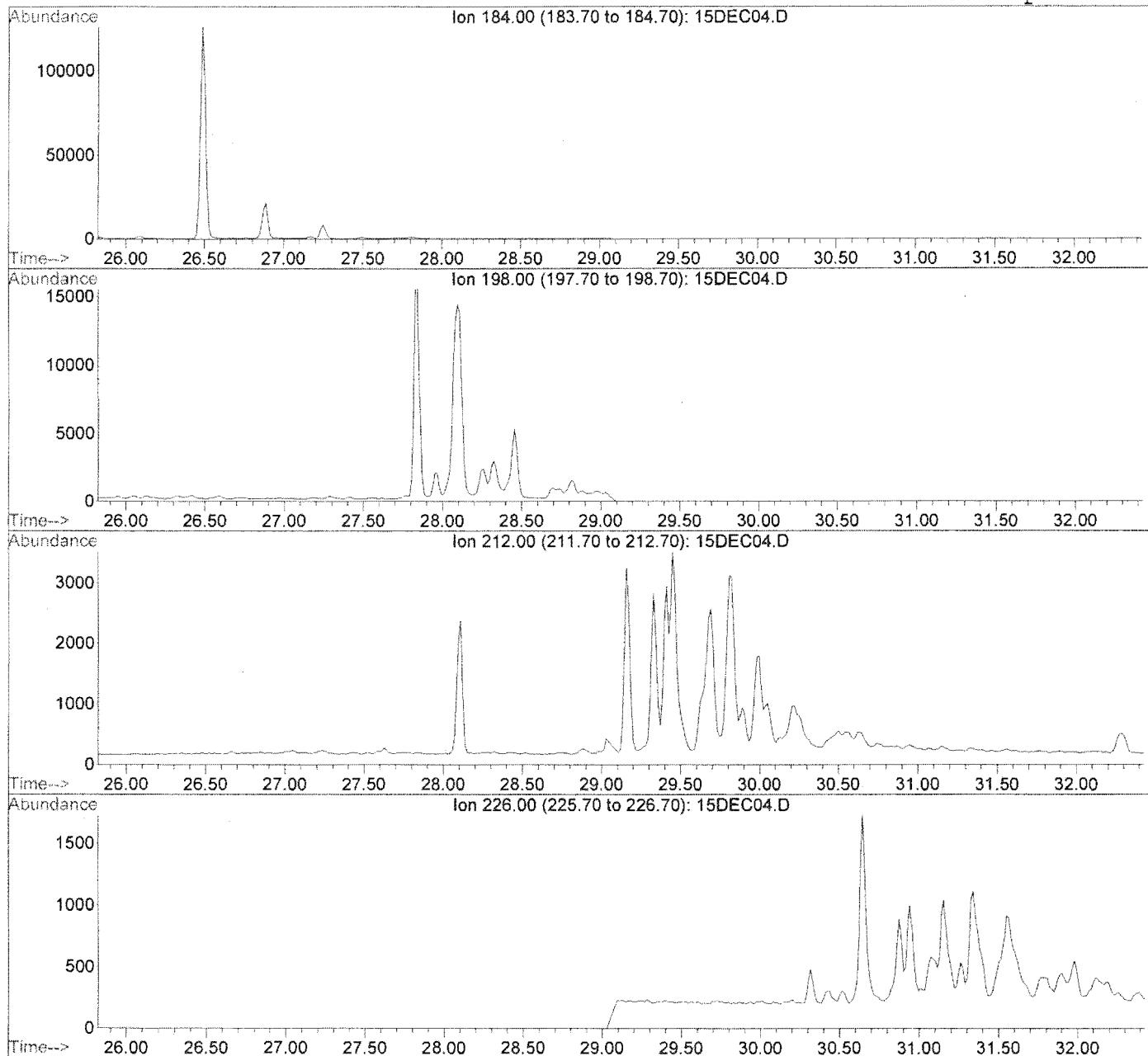
Field ID: MW-105-D
Lab ID: PA031121-04 1:10
File: I:\2\DATA\031215\15DEC04.D
Acquired: 15 Dec 2003 6:10 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Phenanthrenes/Anthracenes



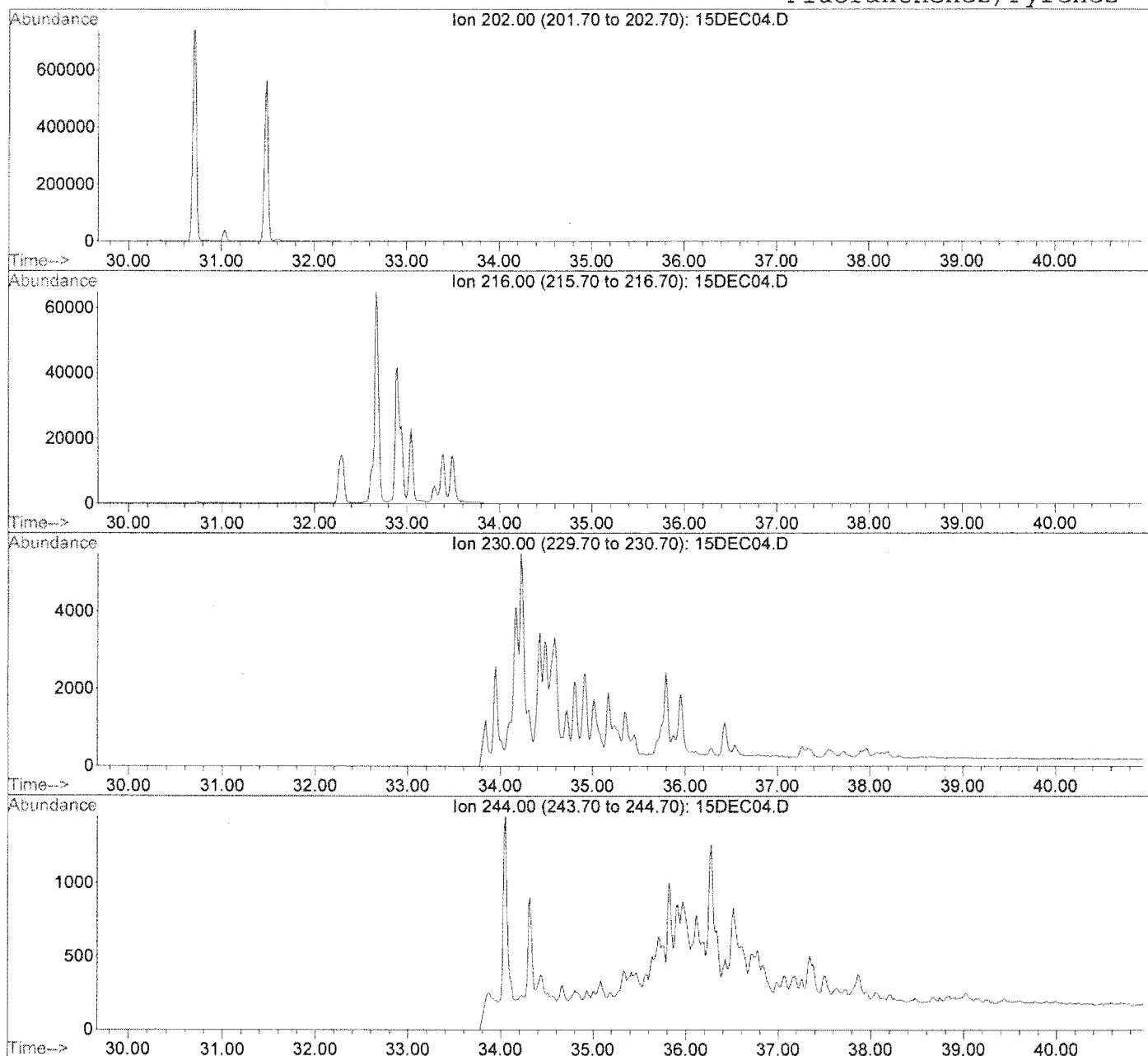
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Lab ID: PA031121-04 1:10
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Instrument: GC2-MS_59 Operator: EC

Dibenzothiophenes



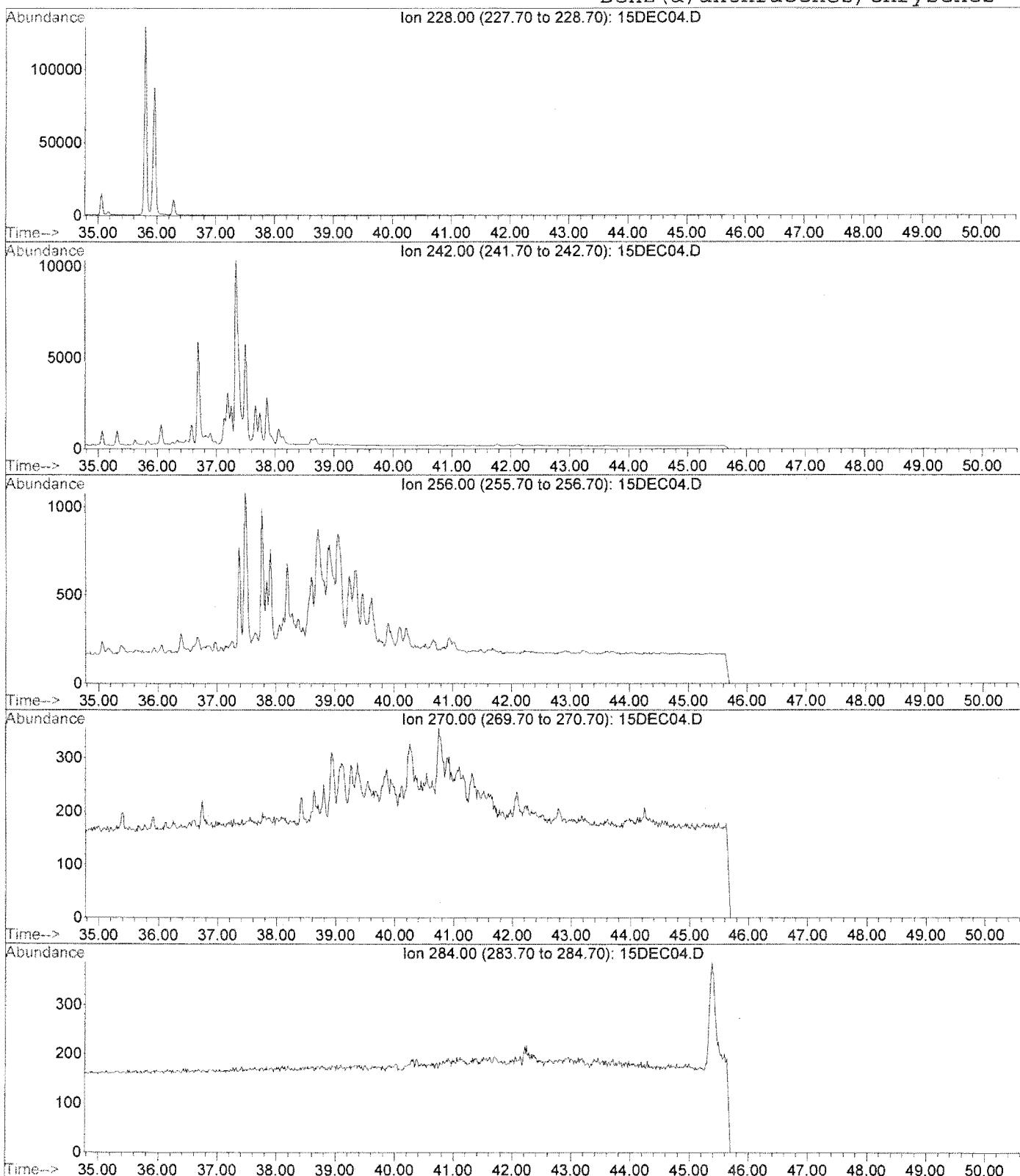
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Lab ID: PA031121-04 1:10
File: I:\2\DATA\031215\15DEC04.D
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Instrument: GC2-MS_59 Operator: EC

Fluoranthenes/Pyrenes

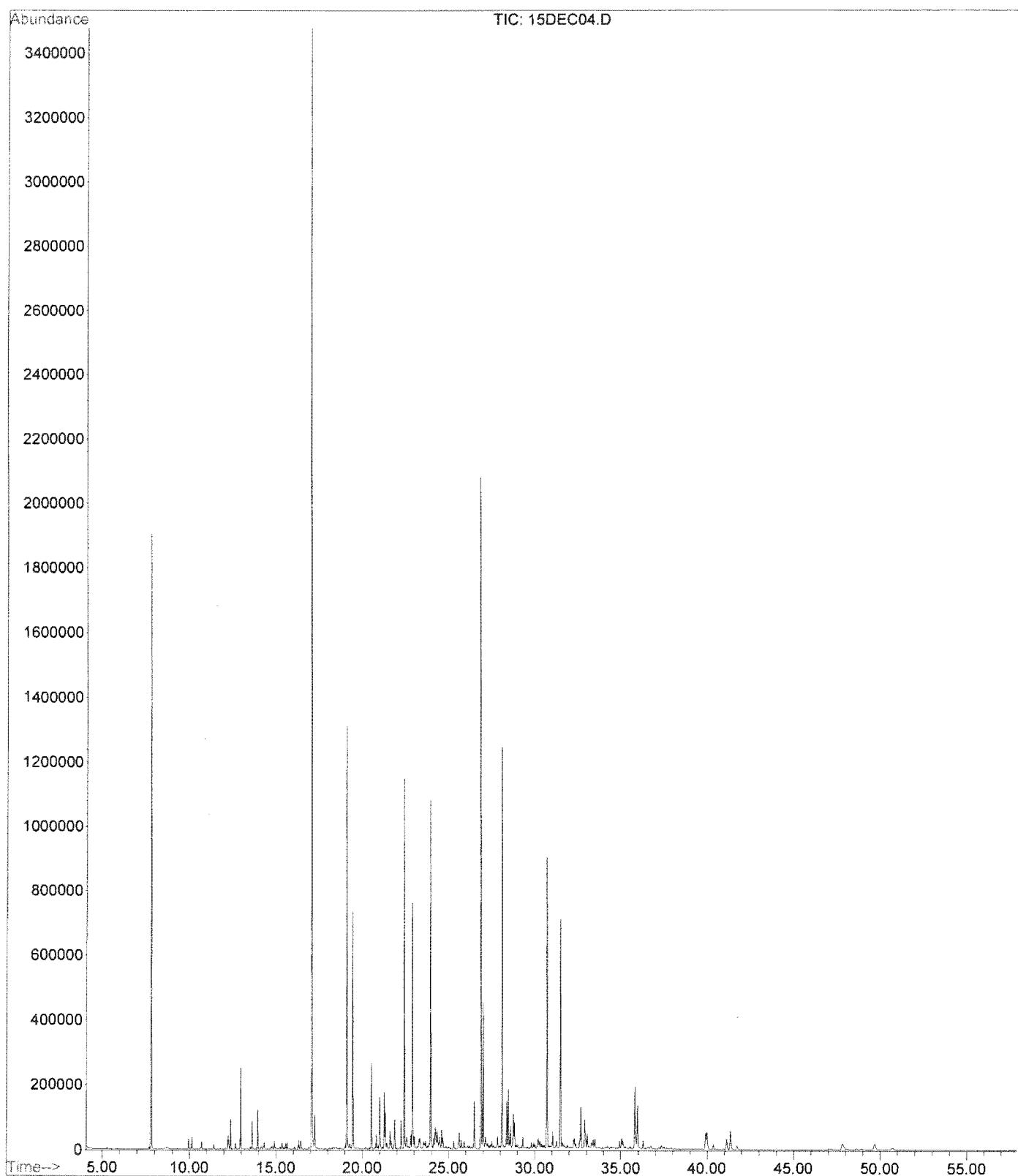


Field ID: MW-105-D
Lab ID: PA031121-04 1:10
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Instrument: GC2-MS_59 Operator: EC

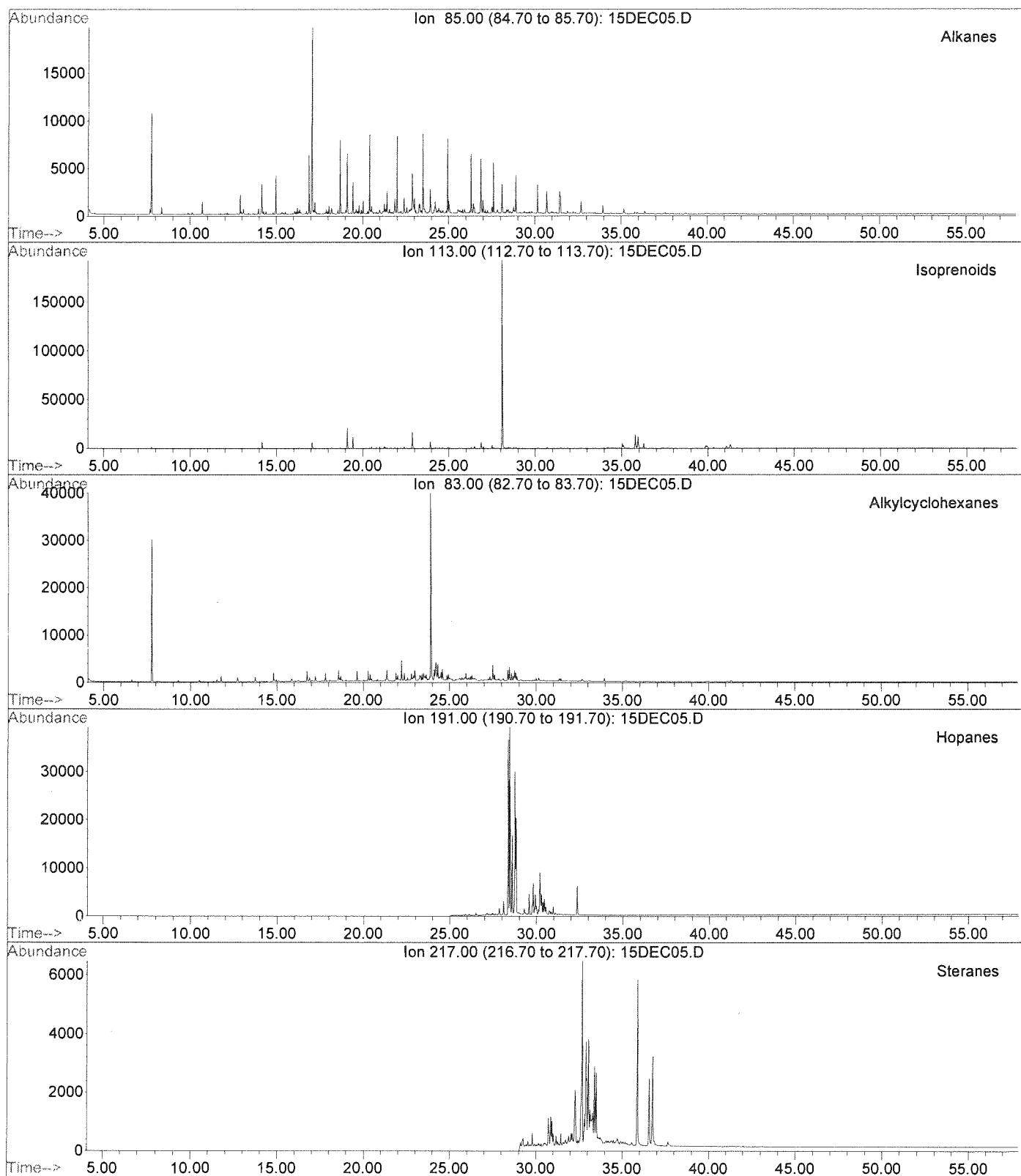
Benz (a) anthracenes/Chrysene



Field ID: MW-105-D
Lab ID: PA031121-04 1:10
File: I:\2\DATA\031215\15DEC04.D
Acquired: 15 Dec 2003 6:10 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

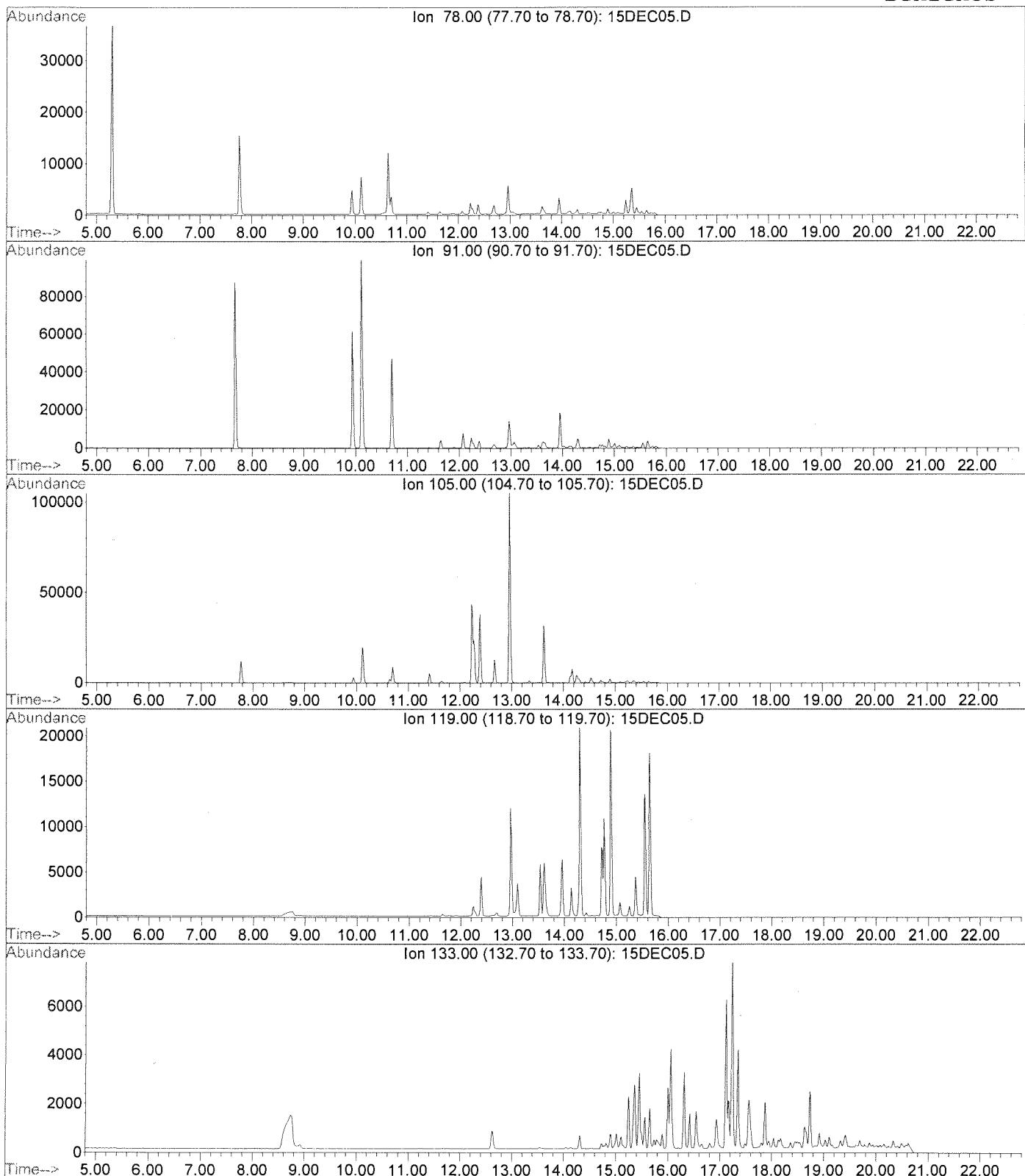


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Lab ID: PA031121-05 1:10
File: I:\2\DATA\031215\15DEC05.D
Acquired: 15 Dec 2003 7:20 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC



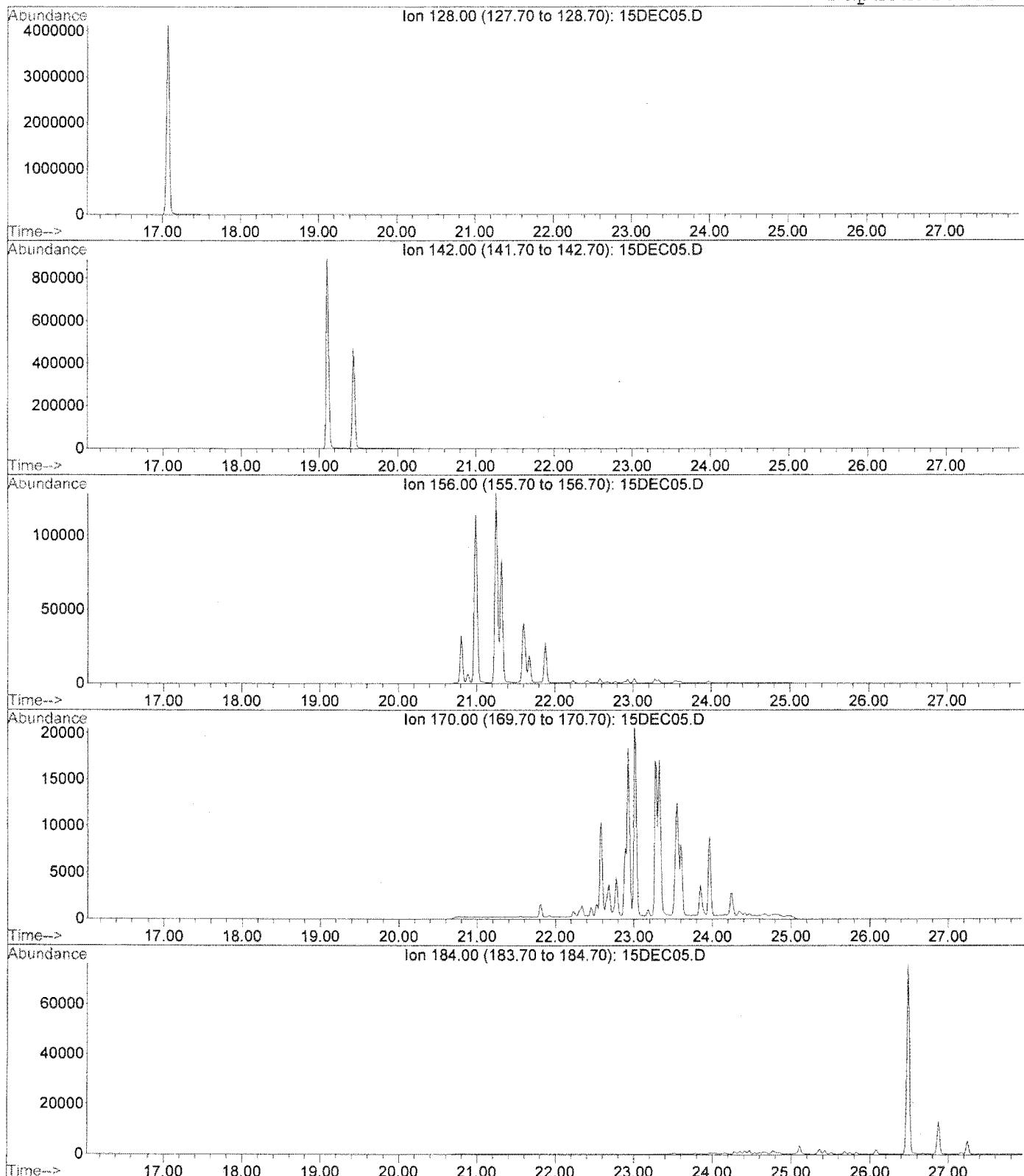
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Instrument: GC2-MS_59 Operator: EC

Benzenes

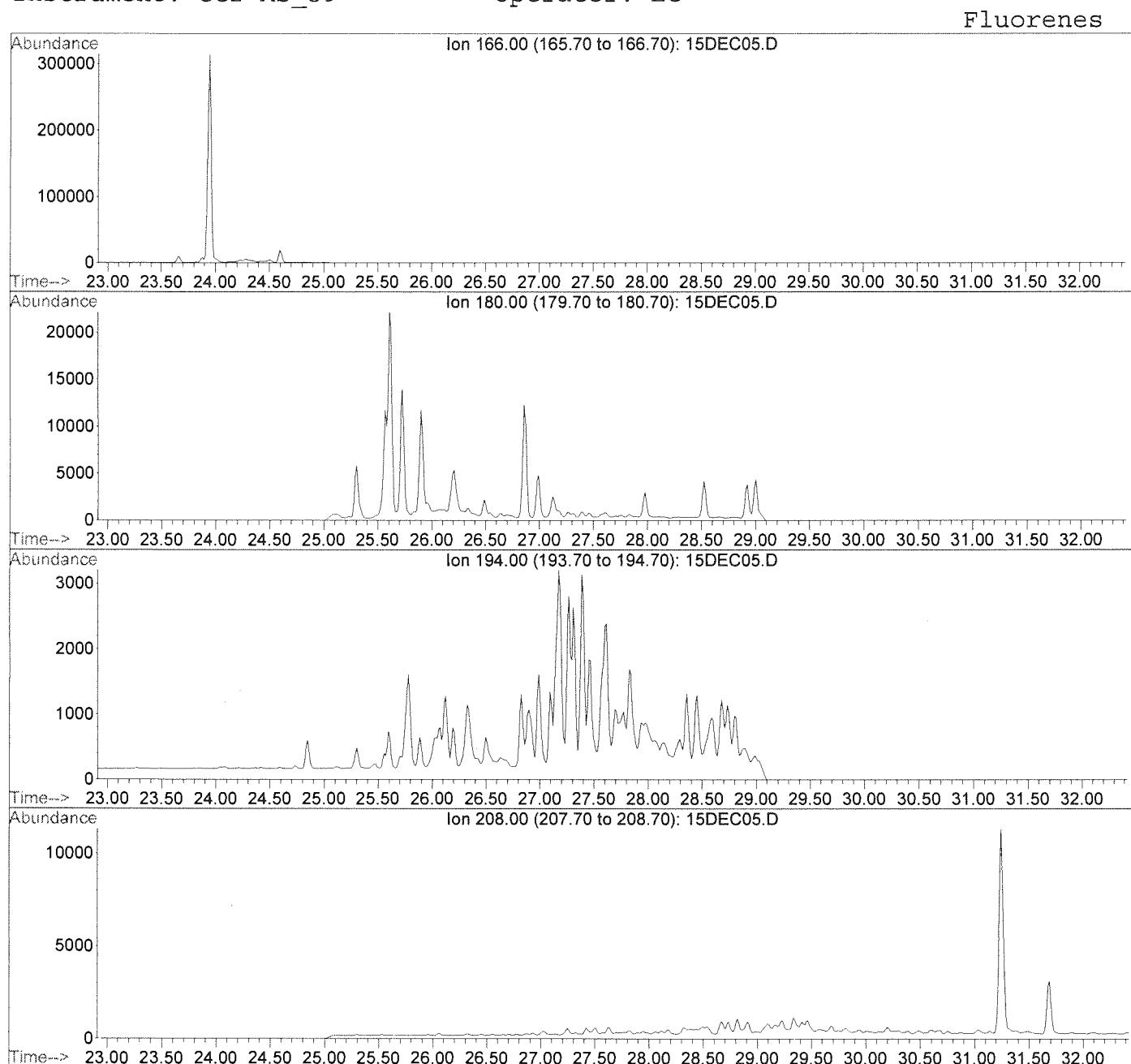


Field ID: MW-102-D
Lab ID: PA031121-05 1:10
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Instrument: GC2-MS_59 Operator: EC

Naphthalenes

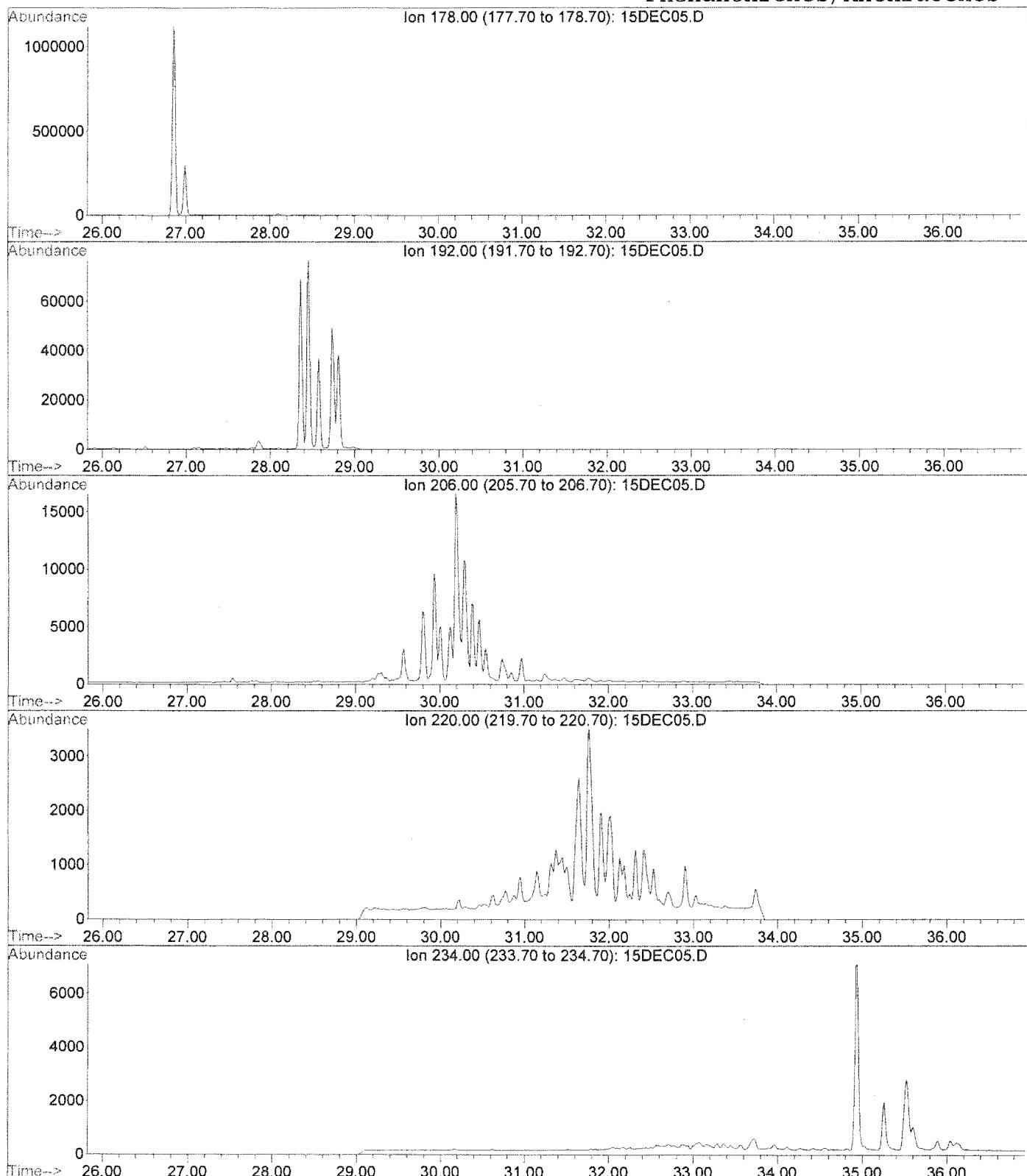


Field ID: MW-102-D
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Instrument: GC2-MS_59 Operator: EC



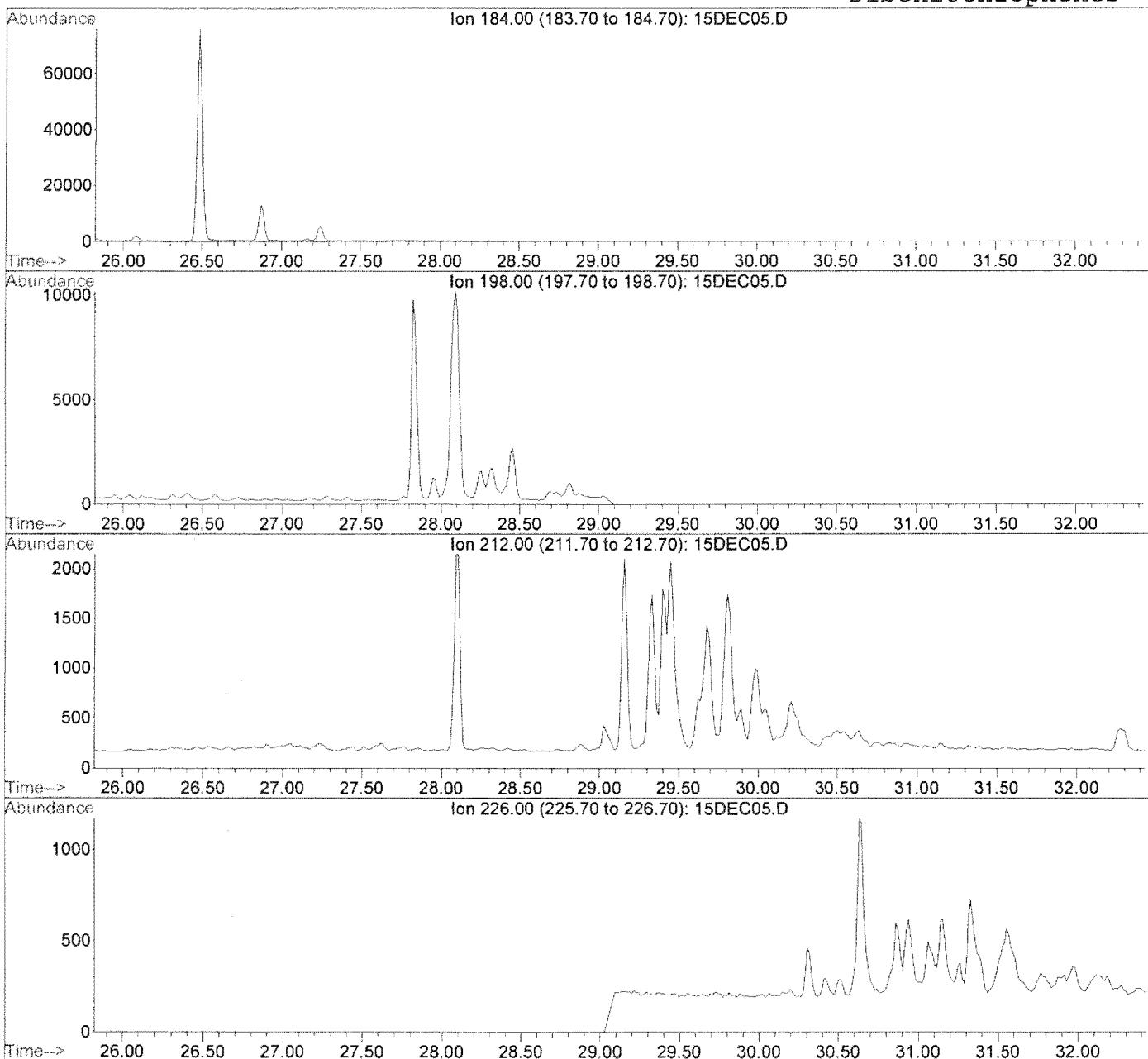
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Lab ID: PA031121-05 1:10
File: I:\2\DATA\031215\15DEC05.D
Acquired: 15 Dec 2003 7:20 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Phenanthrenes/Anthracenes



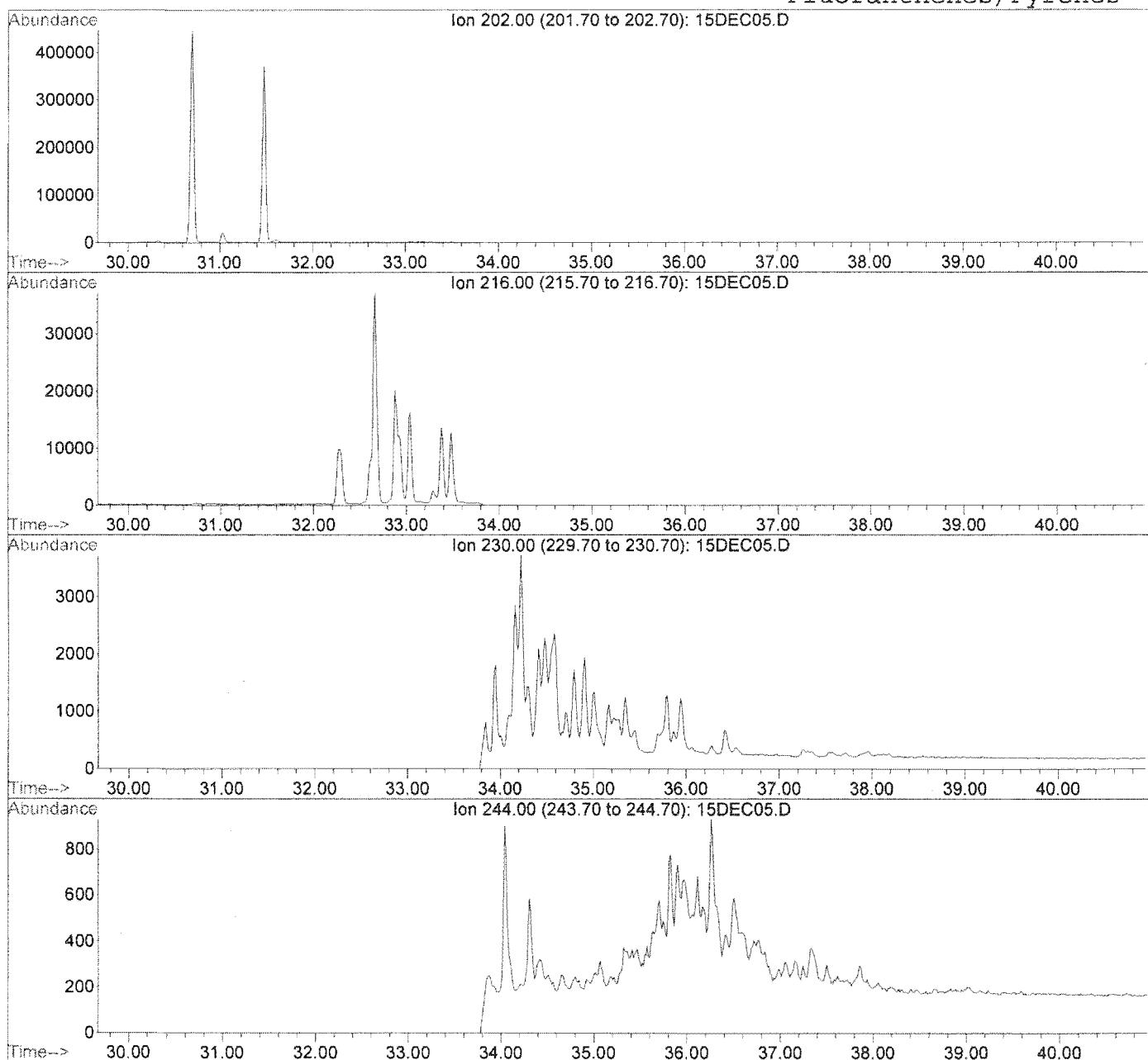
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Lab ID: PA031121-05 1:10
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Instrument: GC2-MS_59 Operator: EC

Dibenzothiophenes



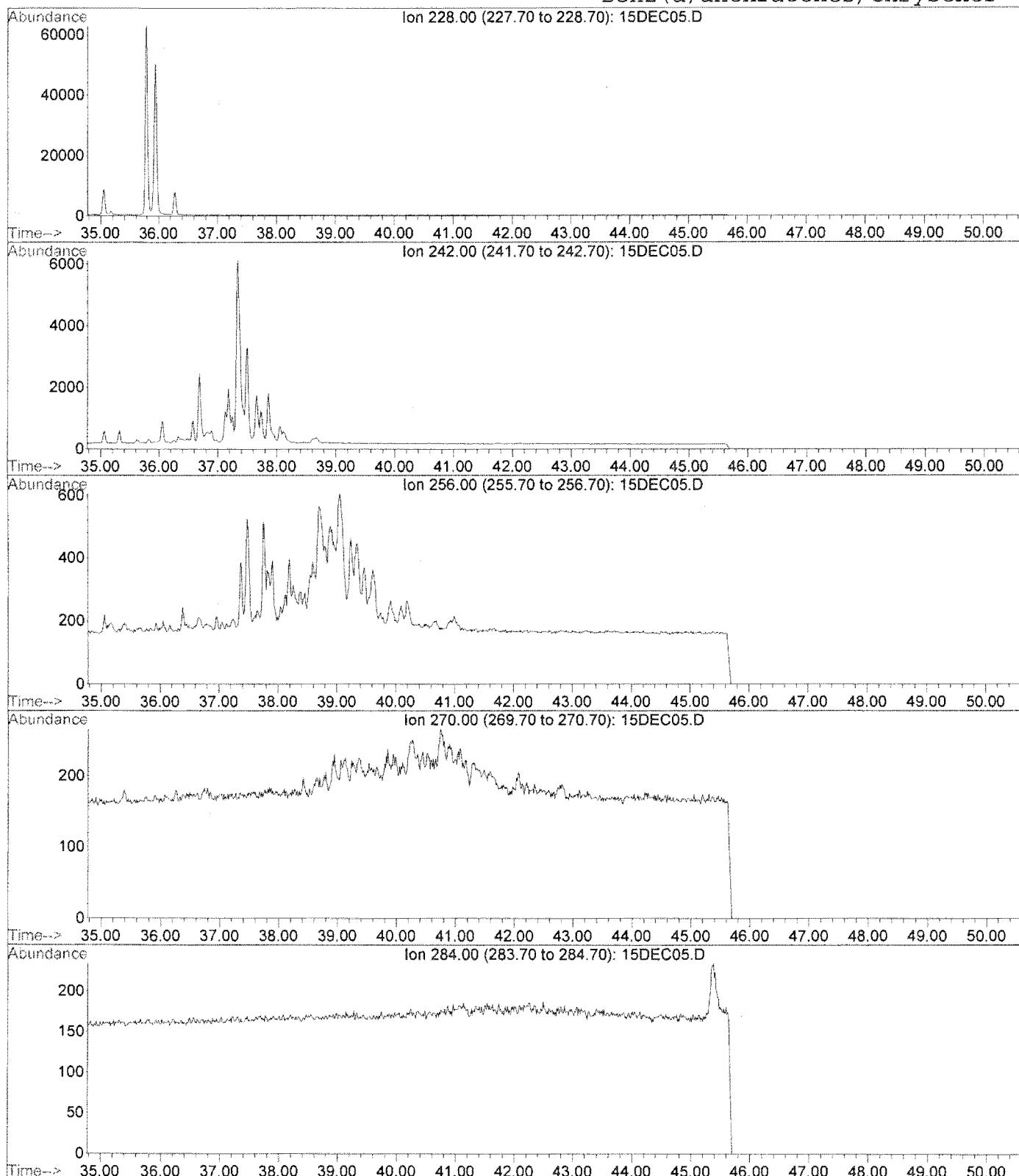
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Lab ID: PA031121-05 1:10
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Instrument: GC2-MS_59 Operator: EC

Fluoranthenes/Pyrenes

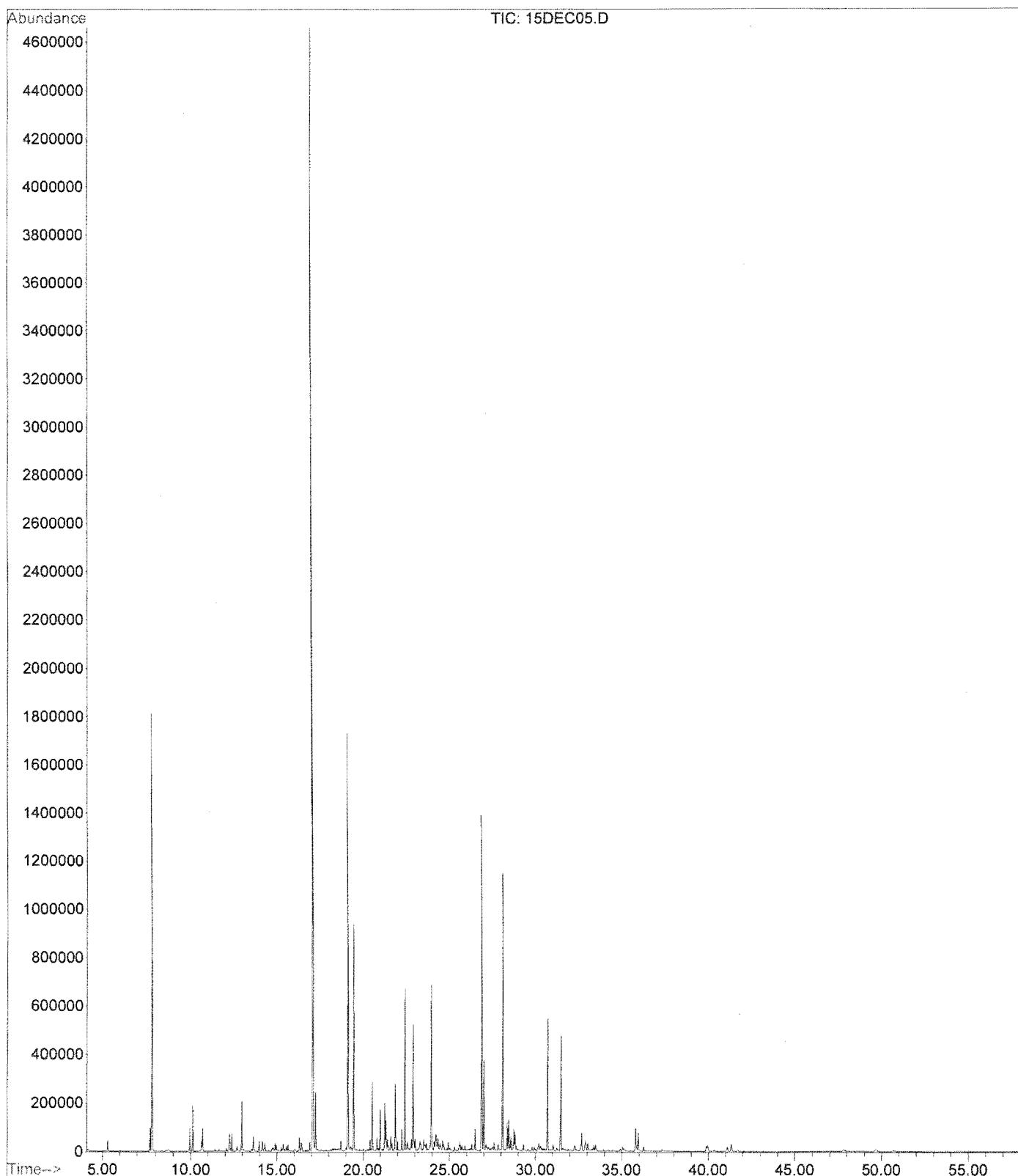


Field ID: MW-102-D
Lab ID: PA031121-05 1:10
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Instrument: GC2-MS_59 Operator: EC

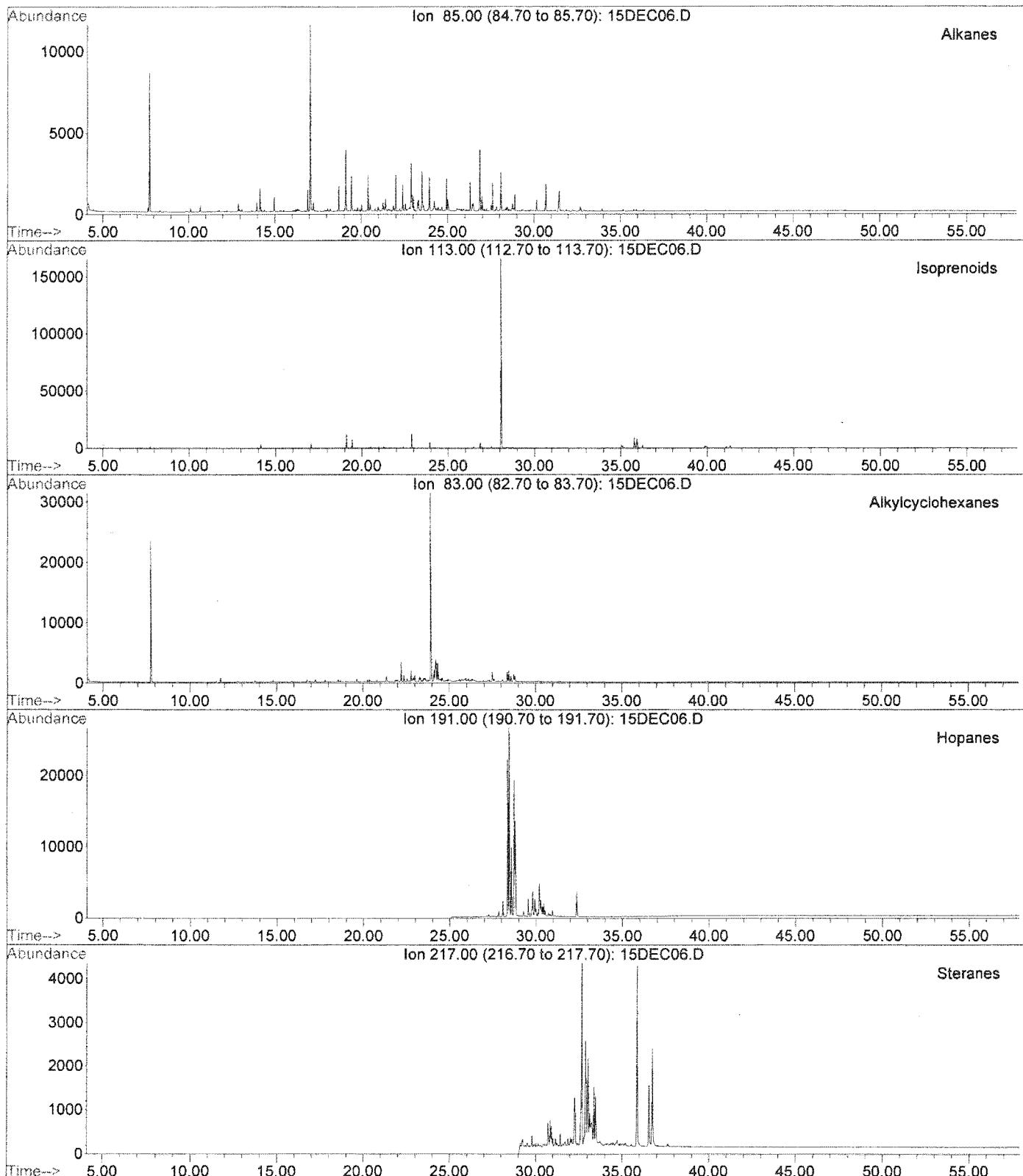
Benz (a)anthracenes/Chrysenes



Field ID: MW-102-D
Lab ID: PA031121-05 1:10
File: I:\2\DATA\031215\15DEC05.D
Acquired: 15 Dec 2003 7:20 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

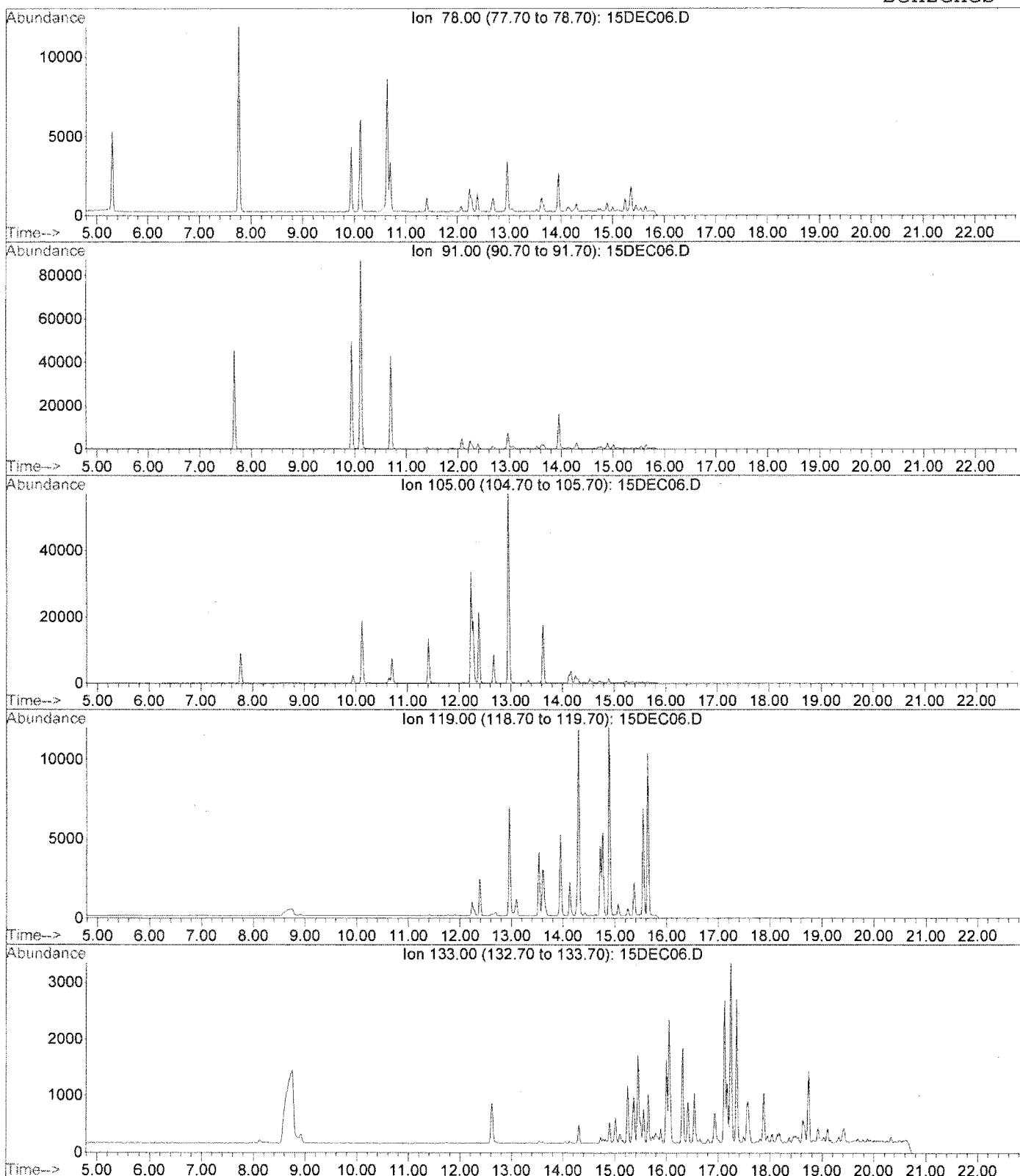


Field ID: MW-103-D
Lab ID: PA031121-06 1:10
File: I:\2\DATA\031215\15DEC06.D
Acquired: 15 Dec 2003 8:30 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC



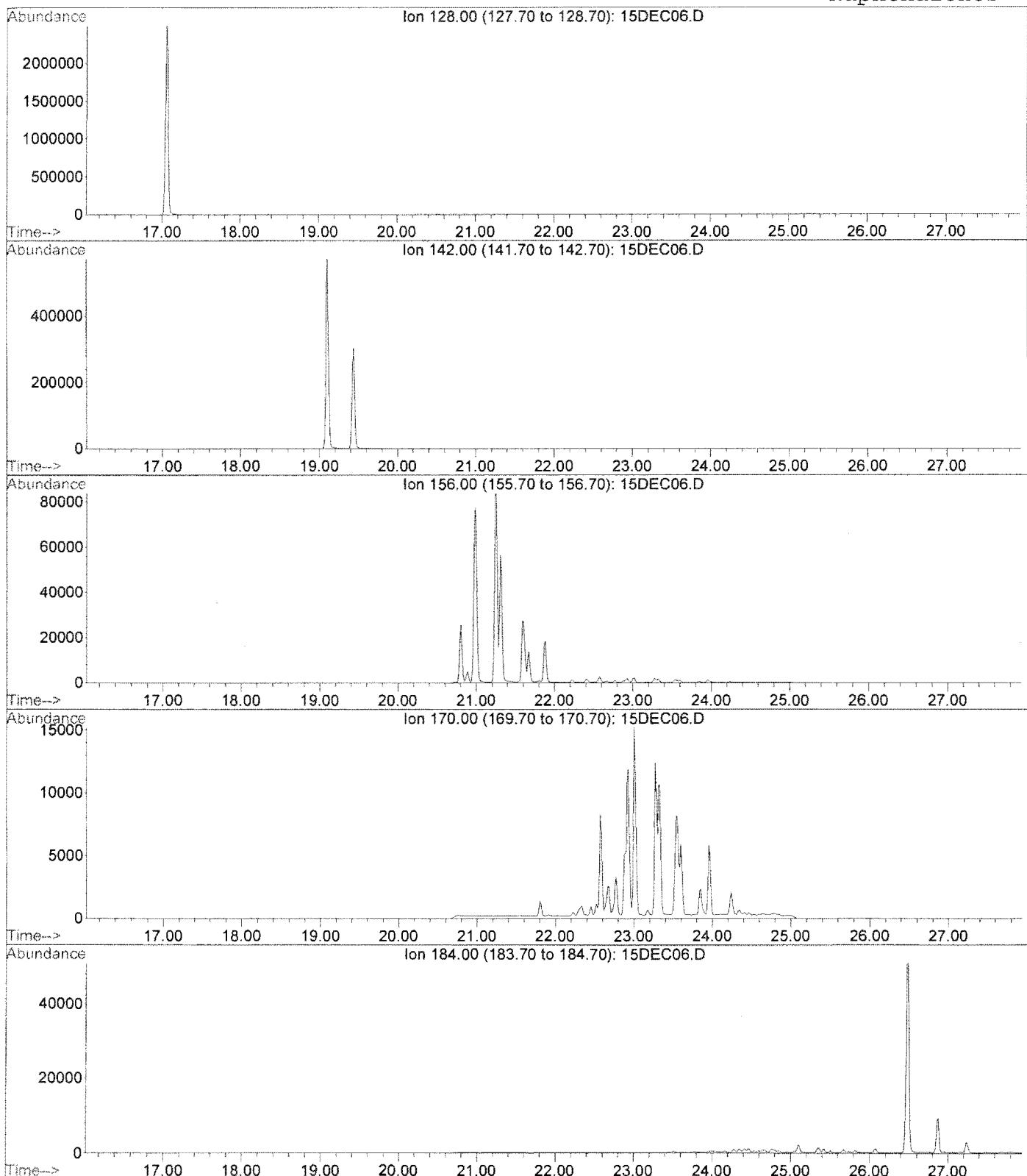
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Lab ID: PA031121-06 1:10
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Acquired: 15 Dec 2003 8:30 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Benzenes

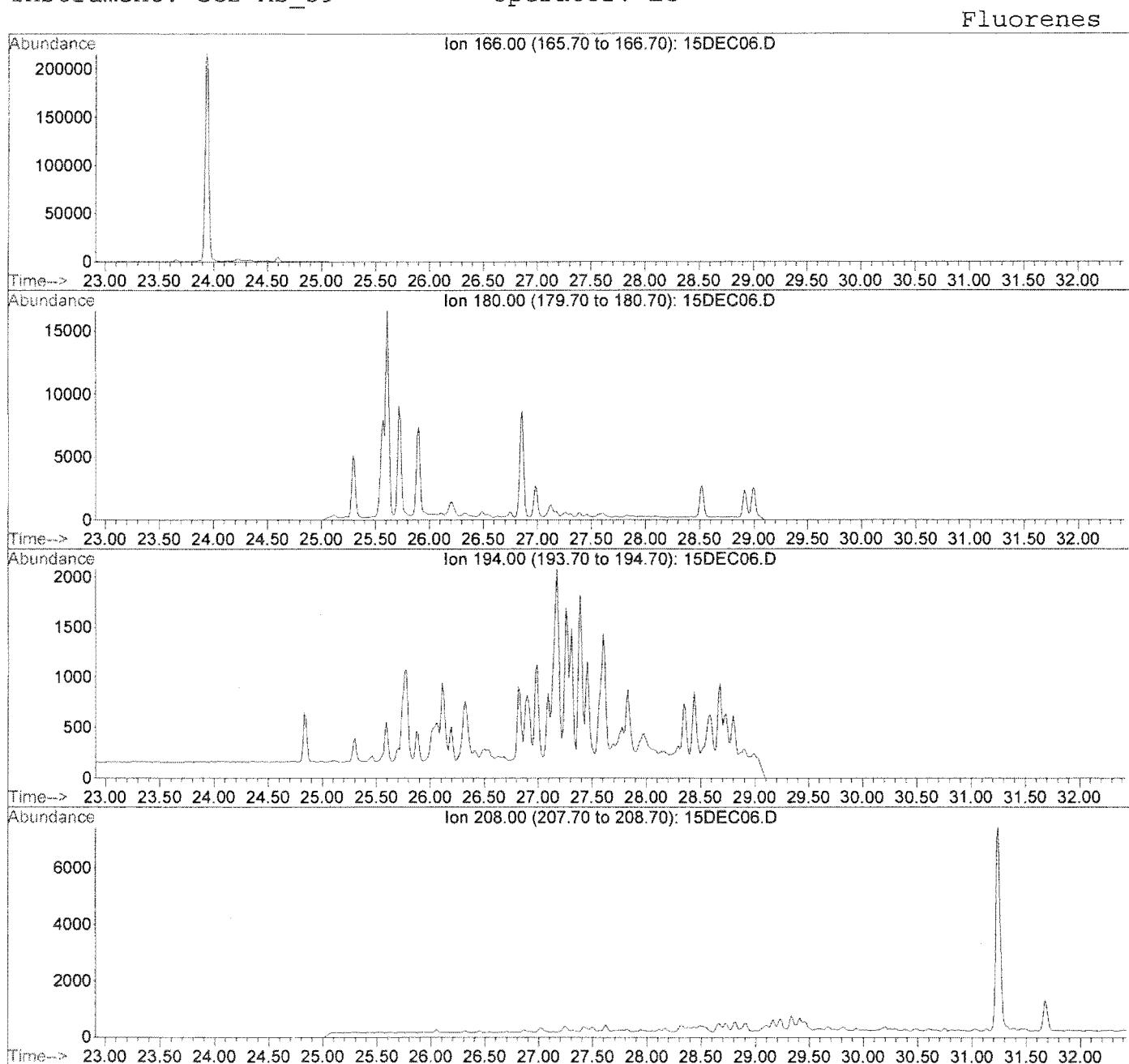


Field ID: MW-103-D
Lab ID: PA031121-06 1:10
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Acquired: 15 Dec 2003 8:30 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Naphthalenes

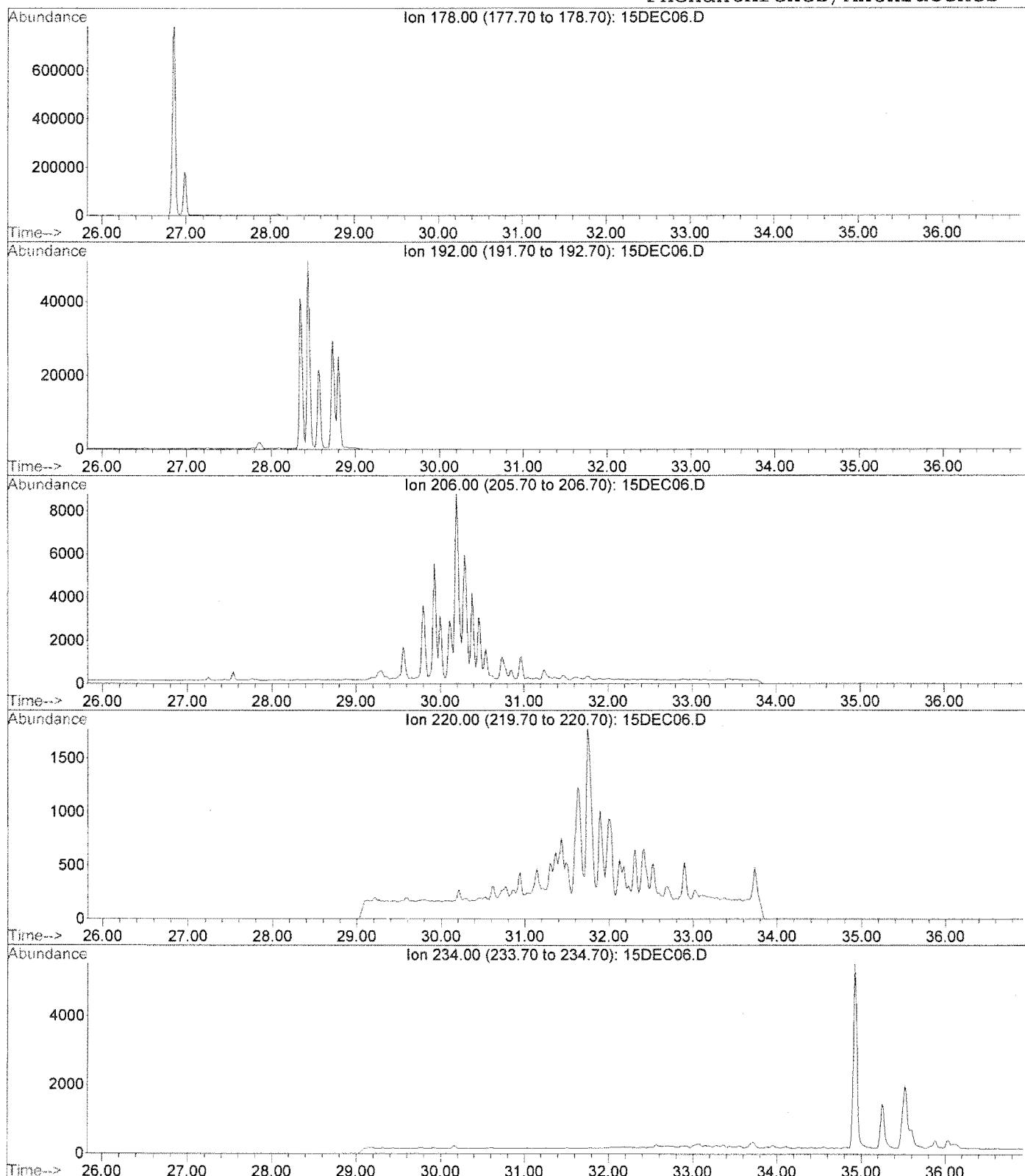


Field ID: MW-103-D
Lab ID: PA031121-06 1:10
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Acquired: 15 Dec 2003 8:30 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC



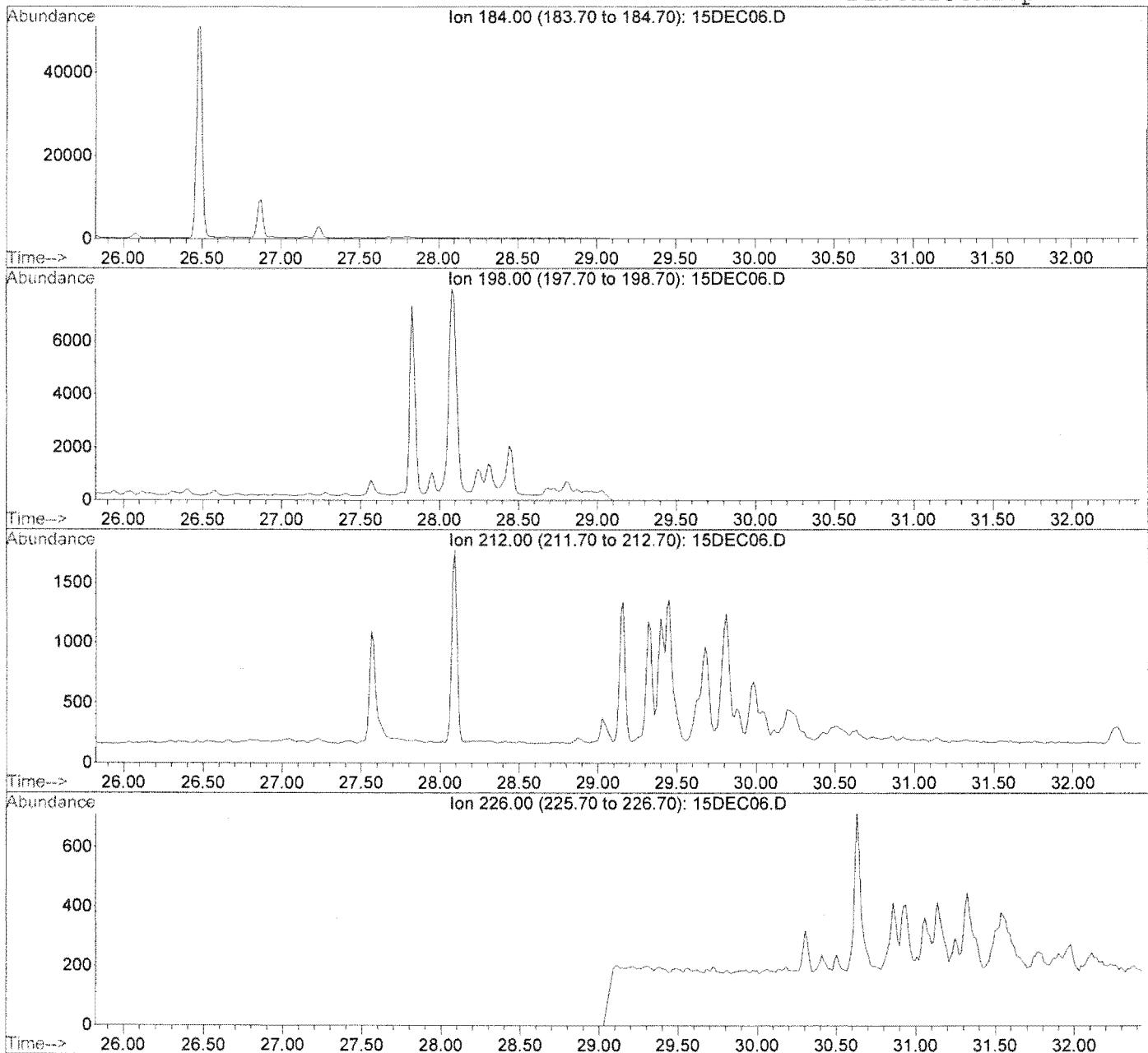
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Instrument: GC2-MS_59 Operator: EC

Phenanthrenes/Anthracenes



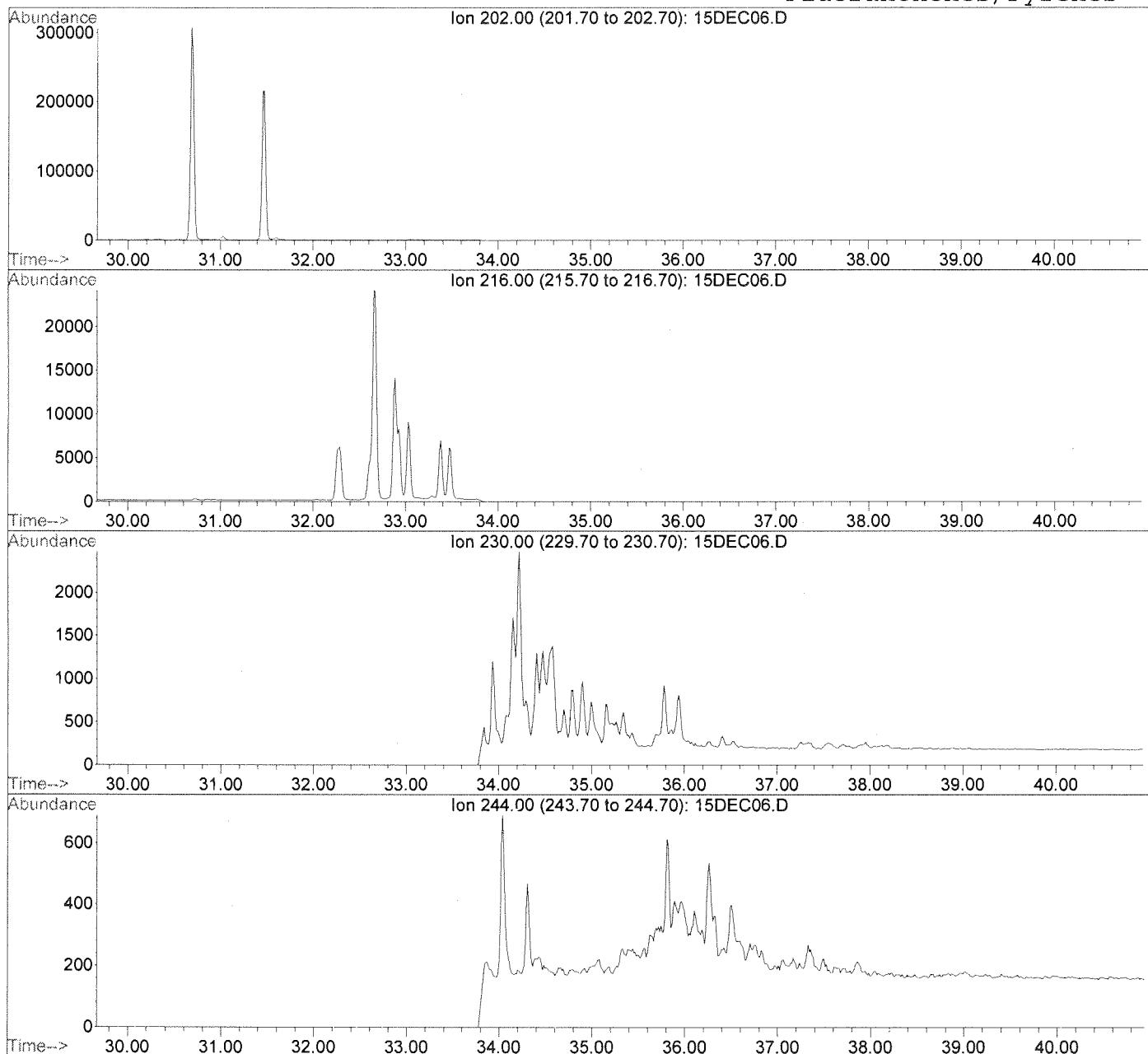
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Instrument: GC2-MS_59 Operator: EC

Dibenzothiophenes



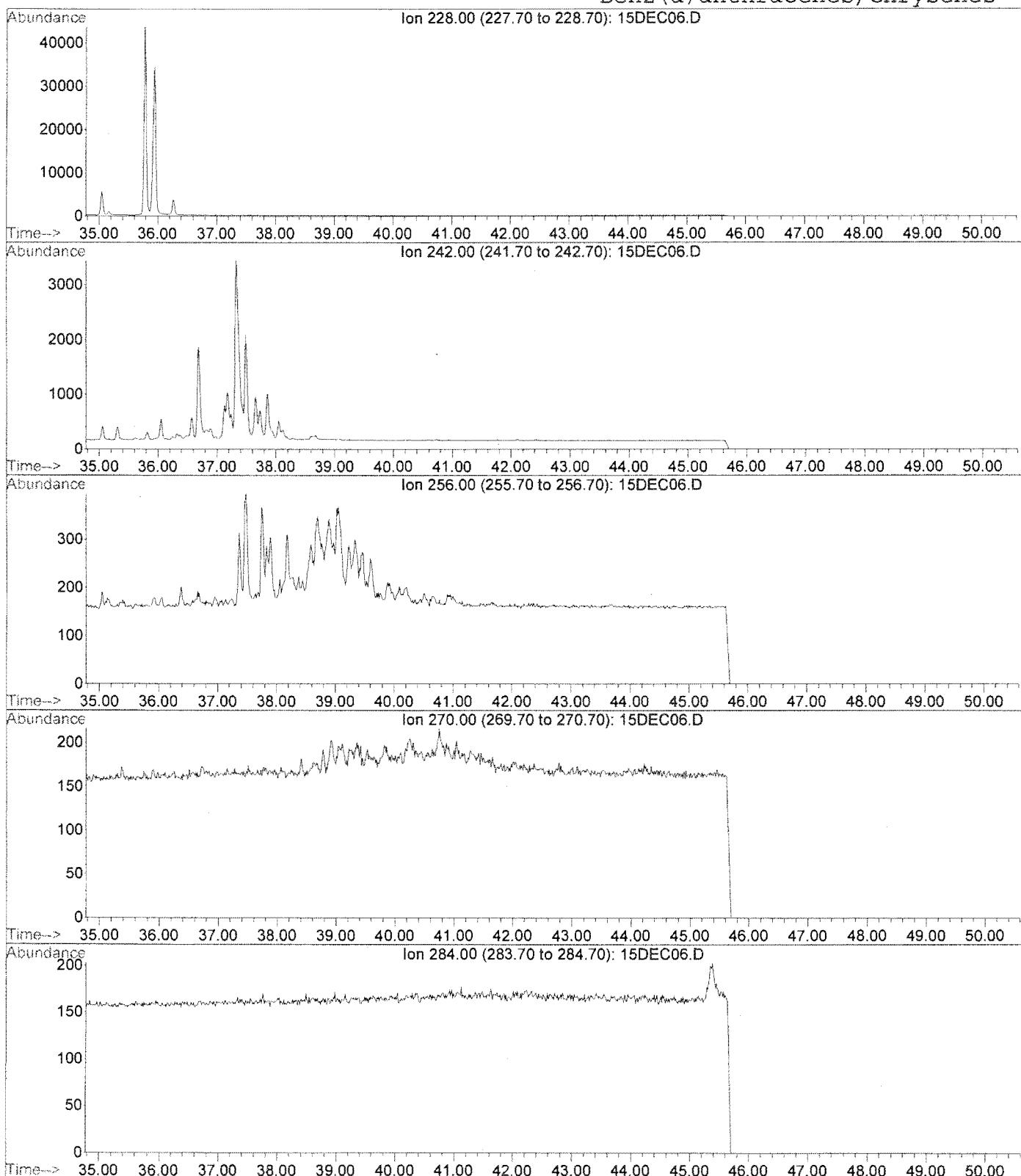
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Lab ID: PA031121-06 1:10
File: I:\2\DATA\031215\15DEC06.D
Acquired: 15 Dec 2003 8:30 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Fluoranthenes/Pyrenes



Field ID: MW-103-D
Lab ID: PA031121-06 1:10
File: I:\2\DATA\031215\15DEC06.D
Acquired: 15 Dec 2003 8:30 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

Benz (a) anthracenes/Chrysenes



Field ID: MW-103-D
Lab ID: PA031121-06 1:10
File: I:\2\DATA\031215\15DEC06.D
Acquired: 15 Dec 2003 8:30 pm using AcqMethod MET4008Y
Instrument: GC2-MS_59 Operator: EC

